DRAFT

Chapter II: Language Arts, Mathematics & Science Performance Standards Connections

Primary Literacy

Early Childhood

Primary Literacy Early Childhood NYC Performance Standards	Content Activities	Technology-based Performance Products/Projects	Technology standards	Suggested Software and Resources	Web Sites
Standard 1: Reading Habits	By the end of the year, students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		
Grade K Reading A Lot Reading Behaviors Discussing Books Vocabulary	Pay attention to what the words they read are saying. Listen to one or two books read aloud each day in school and discuss. Use newly learned vocabulary. ECLAS INSTRUCTIONAL RESOURCE GUIDE Reading strand levels 1	Use word processing to match objects to words. Use drawing programs to create pictorial reaction to readings. Record oral responses as sound background for written responses.	T9. Use word processing T10. Create products	Reader Rabbit's Interactive Reading-Journey 2 Reader Rabbit's Reading Stanley's Sticker Stories Orchard's Flashcard Maker Living Books Library Steck-Vaughn	A great location for primary literacy activities http://school.aol.com/primary/index.adp Scholastic Online http://www.scholastic.com The LightSpan Network http://www.lightspan.com

NYC Performance Standards	Content Activities	Primary Early Literacy Childhood Technology-based Performance Products/Projects	Technology standards	Suggested Software and Resources	Web Sites
	& 2 pages 103-107 Writing mechanics levels 1 & 2 pages 127 – 129			interactive readers	
Grade 1 Independent & Assisted Reading Being Read To Discussing Books Vocabulary	Read four or more books each day independently or with assistance. Compare two books by the same author. Learn new words each day from talk and books read aloud. ECLAS INSTRUCTIONAL RESOURCE GUIDE Reading strand levels 3 & 4 pages 107 – 109 Writing mechanics levels 3 & 4 pages 131 – 133	Create pictorial storyboards. Use Internet to capture author photos for comparison. Compose KidPix sight and sound examples of new words.	T7. Use age-appropriate digital resources T8. Use related peripheral devices T9. Use word processing T10. Create products T13. Use the Internet	Reader Rabbit's Interactive Reading Journey 2 Reader Rabbit's Reading 1 & 2 Living Books Library	A great location for primary literacy activities http://school.aol.com/primary/index.adp Scholastic Online http://www.scholastic.com The Schools of California Online Resources for Educators: language arts links, a teacher resources section, and lesson plans. http://www.sdcoe.k12.ca.us/score/cla.html Kathy Schrock's Educational Site http://school.discovery.com/schrockguide/ The LightSpan Network http://www.lightspan.com
Grade 2 Independent & Assisted Reading Being Read To Discussing Books	Hear texts read aloud from a variety of genres. Read their own writing and writing of peers.	Use Internet for biographical synopsis of authors. Create story webs. Develop original	T7. Use age-appropriate digital resources T8. Use related peripheral devices	Student Writing Center Reader Rabbit's Reading Development Library Level 1/2 & _ KidPix	A great location for primary literacy activities http://school.aol.com/primary/index.adp Scholastic Online http://www.scholastic.com

Primary Early Literacy Childhood NYC Performance Standards	Content Activities	Technology-based Performance Products/Projects	Technology standards	Suggested Software and Resources	Web Sites
Vocabulary	Discuss recurring themes across work. Learn new words each day from their reading and talk. ECLAS INSTRUCTIONAL RESOURCE GUIDE Reading strand levels 5 & 6 page 111 Writing mechanics levels 5 & 6 pages 133	stories.	T9. Use word processing T10. Create products T13. Use the Internet	Storybook Weaver Deluxe Stanley's Sticker Stories Orchard's Flashcard Maker Lightspan Network Flashcard maker and printable worksheets Inspiration	The Schools of California Online Resources for Educators: language arts links, a teacher resources section, and lesson plans. http://www.sdcoe.k12.ca.us/score/cla.html Kathy Schrock's Educational Site http://school.discovery.com/schrockguide/ The LightSpan Network http://www.lightspan.com Merriam-Webster Online: The Language Center - Online dictionary, thesaurus, and vocabulary builders. http://www.m-w.com
Grade 3 Independent & Assisted Reading Being Read To Discussing Books Vocabulary	Read & hear texts read aloud from a variety of genres. Discuss underlying themes or messages. Read and respond to poems, stories, memoirs and plays written by peers.	Create thematic slide show. Use Internet for research. Create an author's biographical web. Create original multimedia poem or story as response to	T7. Use age-appropriate digital resources T8. Use related peripheral devices T9. Use word processing T10. Create products	Student Writing Center Reader Rabbit's Reading Development Library Level 1/2 KidPix Storybook Weaver Deluxe Imagination Express	A great location for primary literacy activities http://school.aol.com/primary/index.adp Scholastic Online http://www.scholastic.com The Schools of California Online Resources for Educators: language arts links, a teacher resources section, and lesson

Primary Early Literacy Childhood NYC Performance Standards	Content Activities	Technology-based Performance Products/Projects	Technology standards	Suggested Software and Resources	Web Sites
	Use information that is accurate.	material read. Use word processing/ create spreadsheet to record responses to peer's work.	T12 use and create spreadsheets T13. Use the Internet	(various titles)	plans. http://www.sdcoe.k12.ca.us/score/cla.html Kathy Schrock's Educational Site http://school.discovery.com/schrockguide/ The LightSpan Network http://www.lightspan.com Merriam-Webster Online: The Language Center - Online dictionary, thesaurus, and vocabulary builders. http://www.m-w.com
Reading Standard 2: Getting The Meaning Accuracy & Fluency Self-monitoring & Self – Correcting Strategies Comprehension	By the end of the year, students will:	Students will:	Students will:		
Grade K	Create artwork or a written response that shows comprehension of the story that was read. Retelling what they have read using their	Use word processing to match objects to initial sounds. Use drawing programs to create pictorial reaction to readings.	T9. Use word processing T10. Create products	The Art Lesson KidPix Paint, Write & Play Storybook Weaver Deluxe	A great location for primary literacy activities http://school.aol.com/primary/index.adp Scholastic Online http://www.scholastic.com

NYC Performance Standards	Content Activities	Primary Early Literacy Childhood Technology-based Performance Products/Projects	Technology standards	Suggested Software and Resources	Web Sites
	own words. ECLAS INSTRUCTIONAL RESOURCE GUIDE Reading strand level 1 & 2 pages 103 – 107 ABC sight words level 1 & 2 page 65-71 Phonemic awareness levels 1 & 2 page 87	Record oral responses as sound background for written stimulus.			The LightSpan Network http://www.lightspan.com
Grade 1	Tell if words make sense in context. Make predictions about what might happen. Retell a story. Extend a story. Use cues of punctuation to help in reading fluently & to get the meaning. ECLAS INSTRUCTIONAL RESOURCE GUIDE Reading strands levels 2,3 &4 pages 107 – 109	Create pictorial flashcards of new words. Compose kidpix sight and sound examples of new words. Use word processor to write alternate ending. Create a graphic web to demonstrate comprehension.	T7. Use age-appropriate digital resources T8. Use related peripheral devices T9. Use word processing T10. Create products T13. Use the Internet	AppleWorks-ClarisWorks ClarisWorks for Kids Student Writing Center Inspiration Lightspan Network Flashcard maker and printable worksheets KidPix Orly's Draw a Story	A great location for primary literacy activities http://school.aol.com/primary/index.adp Scholastic Online http://www.scholastic.com The Schools of California Online Resources for Educators: language arts links, a teacher resources section, and lesson plans. http://www.sdcoe.k12.ca.us/score/cla.html Kathy Schrock's Educational Site http://school.discovery.com/schrockguide/

Primary Early Literacy Childhood NYC Performance Standards	Content Activities	Technology-based Performance Products/Projects	Technology standards	Suggested Software and Resources	Web Sites
	Phonemic awareness levels 3 & 4 page 89 ABC sight words level 3 & 4 p. 73				The LightSpan Network http://www.lightspan.com
Grade 2	Combine information from two different parts of the text. Compare relationships between parts of a story. Discuss or write about the themes of a book. ECLAS INSTRUCTIONAL RESOURCE GUIDE Reading strand levels 5 & 6 page 111 ABC sight words levels 5 & 6 pages 75-78 Phonemic awareness levels 5	Create a graphic organizer. Use CD –ROM encyclopedia for author backgrounds. Use word processor thesaurus for synonyms. Create a talking book using a similar theme.	T7. Use age-appropriate digital resources T8. Use related peripheral devices T9. Use word processing T10. Create products T13. Use the Internet	Appleworks-ClarisWorks ClarisWorks for kids Inspiration Lightspan Network Flashcard maker and printable worksheets KidPix Orly's Draw a Story DK Eyewitness Children's Dictionary DK Eyewitness Children's Encyclopedia Reader Rabbit's Interactive Reading 1-2	A great location for primary literacy activities http://school.aol.com/primary/index.adp Scholastic Online http://www.scholastic.com The Schools of California Online Resources for Educators: language arts links, a teacher resources section, and lesson plans. http://www.sdcoe.k12.ca.us/score/cla.html Kathy Schrock's Educational Site http://school.discovery.com/schrockguide/ The LightSpan Network http://www.lightspan.com
Grade 3	Compare stories they have read or heard. Use cues of punctuation to guide them in getting	Create a thematic slide show. Use Internet for research.	T7. Use age-appropriate digital resources T8. Use related	Cornerstone : Reading Vocabulary & Reading Comprehension Appleworks-	A great location for primary literacy activities http://school.aol.com/primary/index.adp

NYC Performance Standards	Content Activities	Primary Early Literacy Childhood Technology-based Performance Products/Projects	Technology standards	Suggested Software and Resources	Web Sites
	meaning. Retrieve information.	Create a graphic web comparison. Create original multimedia poem or story as response to material read.	peripheral devices T9. Use word processing T10. Create products T13. Use the Internet	ClarisWorks ClarisWorks for kids Inspiration Lightspan Network Flashcard maker and printable worksheets KidPix Orly's Draw a Story DK Eyewitness Children's Dictionary DK Eyewitness Children's Encyclopedia	Scholastic Online http://www.scholastic.com The Schools of California Online Resources for Educators: language arts links, a teacher resources section, and lesson plans. http://www.sdcoe.k12.ca.us/score/cla.html Kathy Schrock's Educational Site http://school.discovery.com/schrockguide/ The LightSpan Network http://www.lightspan.com
Reading Standard 3: Print-Sound Code Knowledge of Letters & their Sounds Phonemic Awareness Reading Words	By the end of the year, students will:	Students will:	Students will:		
Grade K	ECLAS INSTRUCTIONAL RESOURCE GUIDE Writing mechanics levels 1 & 2 pages 127	Use word processor to record word lists. Match objects to words.	T9. Use word processing	Let's Go Read! 1 Let's Go Read! 2 Living Books Library	A great location for primary literacy activities http://school.aol.com/primary/index.adp

Primary Early Literacy Childhood NYC Performance Standards	Content Activities	Technology-based Performance Products/Projects	Technology standards	Suggested Software and Resources	Web Sites
	– 129 ABC sight words level 1 & 2 page 71 Phonemic awareness levels 1 & 2 page 87	Create pictorial flashcards of new words.		A to Zap KidPix	Scholastic Online http://www.scholastic.com The LightSpan Network http://www.lightspan.com
Grade 1	Know regular letter-sound correspondences. Recognize about 150 high frequency words encountered in reading. Use onsets and rhymes to create new words. ECLAS INSTRUCTIONAL RESOURCE GUIDE Writing mechanics levels 3 & 4 pages 131 – 133 ABC Sight Words levels 3 & 4 page 73 Phonemic Awareness levels 3 & 4 page 89	Use word processor to record word lists. Create pictorial flash cards of new words. Use drawing program to illustrate a rhyme. Use painting program stamps and letters for sound symbol pictures.	T7. Use age-appropriate digital resources T8. Use related peripheral devices T9. Use word processing T10. Create products	Reader Rabbit's Learn to Read & Reading 1 Living Books Library A to Zap KidPix WriteOutLoud Lightspan Network Flashcard maker and printable worksheets	A great location for primary literacy activities http://school.aol.com/primary/index.adp Scholastic Online http://www.scholastic.com The Schools of California Online Resources for Educators: language arts links, a teacher resources section, and lesson plans. http://www.sdcoe.k12.ca.us/score/cla.html Kathy Schrock's Educational Site http://school.discovery.com/schrockguide/ The LightSpan Network http://www.lightspan.com
Grade 2	Read regularly spelled one- and two-syllable words automatically.	Use CD-ROM dictionary to hear spelled words.	T7. Use age-appropriate digital resources	Reader Rabbit's Reading 2 Reader Rabbit 3	A great location for primary literacy activities http://school.aol.com/primary/index.adp

NYC Performance Standards	Content Activities	Primary Early Literacy Childhood Technology-based Performance Products/Projects	Technology standards	Suggested Software and Resources	Web Sites
	Recognize or figure out most irregularly spelled words and spelling patterns. ECLAS INSTRUCTIONAL RESOURCE GUIDE Writing mechanics levels 5 & 6 page 133 ABC Sight Words levels 5 & 6 pages 75-78 Phonemic Awareness levels 5 & 6 page 91	Use word processor to create listing of irregular words.	T9. Use word processing	WriteOutLoud DK Eyewitness Children's Dictionary ClarsWorks for Kids AppleWorks-ClarisWorks Student Writing Center	Scholastic Online http://www.scholastic.com The Schools of California Online Resources for Educators: language arts links, a teacher resources section, and lesson plans. http://www.sdcoe.k12.ca.us/score/cla.html Kathy Schrock's Educational Site http://school.discovery.com/schrockguide/ The LightSpan Network http://www.lightspan.com
Grade 3	Decode words automatically across the whole span of language. Continue to learn about words.	Use CD-ROM dictionary to hear spelled words. Use word processor to create listing of irregular words. Use word processing thesaurus.	T7. Use age-appropriate digital resources T9. Use word processing	Reader Rabbit's Reading Development Library 3 / 4 WriteOutLoud DK Eyewitness Children's Dictionary ClarisWorks for Kids AppleWorks-ClarisWorks Student Writing Center	A great location for primary literacy activities http://school.aol.com/primary/index.adp Scholastic Online http://www.scholastic.com The Schools of California Online Resources for Educators: language arts links, a teacher resources section, and lesson plans. http://www.sdcoe.k12.ca.us/score/cla.html

Primary Early Literacy Childhood NYC Performance Standards	Content Activities	Technology-based Performance Products/Projects	Technology standards	Suggested Software and Resources	Web Sites
					Kathy Schrock's Educational Site http://school.discovery.com/schrockguide/ The LightSpan Network http://www.lightspan.com
Writing Standard 1: Habits and Processes	By the end of the year, students will:	Students will:	Students will:		
Grade K	Write daily. Use whatever means are at hand to communicate and make meaning (e.g., drawings, letter strings, scribbles). ECLAS INSTRUCTIONAL RESOURCE GUIDE Reading strand levels 1 & 2 pages 103-107	Use drawing programs to create pictorial stories. Create pictorial flashcards of new words.	T8. Use related peripheral devices T10. Create products T13. Use the Internet	Stanley's Sticker Stories StoryBook Weaver Deluxe KidPix Student Writing Center Kid Works Deluxe	A great location for primary literacy activities http://school.aol.com/primary/index.adp Scholastic Online http://www.scholastic.com The LightSpan Network http://www.lightspan.com
Grade 1	Write daily. Revise, edit and proofread work as appropriate. ECLAS INSTRUCTIONAL RESOURCE GUIDE Reading strand levels 3	Create basic journal outline using word processor and spell check. Create stories. Write story reviews.	T9. Use word processor T10. Create products	ClarisWorks for Kids AppleWorks-ClarisWorks Stanley's Sticker Stories StoryBook Weaver Deluxe	A great location for primary literacy activities http://school.aol.com/primary/index.adp Scholastic Online http://www.scholastic.com The Schools of California Online Resources for Educators:

NYC Performance Standards	Content Activities	Primary Early Literacy Childhood Technology-based Performance Products/Projects	Technology standards	Suggested Software and Resources	Web Sites
	& 4 pages 107 - 109			KidPix Orly's Draw a Story Paint, Write & Play Student Writing Center Kid Works Deluxe	language arts links, a teacher resources section, and lesson plans. http://www.sdcoe.k12.ca.us/score/cla.html Kathy Schrock's Educational Site http://school.discovery.com/schrockguide/ The LightSpan Network http://www.lightspan.com
Grade 2	Write daily. Routinely reread, revise, edit and proof read work. Write alternate endings to stories. ECLAS INSTRUCTIONAL RESOURCE GUIDE Reading strand levels 5 & 6 page 111	Create basic journal outline using word processor and spell check. Create stories. Write story reviews. Write a research report.	T8. Use related peripheral devices T9. Use word processing T10. Create products T16. Create and implement assessment components	ClarisWorks for Kids AppleWorks-ClarisWorks Stanley's Sticker Stories StoryBook Weaver Deluxe KidPix Orly's Draw a Story Paint, Write and Play Student Writing Center Kid Works Deluxe	A great location for primary literacy activities http://school.aol.com/primary/index.adp Scholastic Online http://www.scholastic.com The Schools of California Online Resources for Educators: language arts links, a teacher resources section, and lesson plans. http://www.sdcoe.k12.ca.us/score/cla.html Kathy Schrock's Educational Site http://school.discovery.com/schrockguide/

Primary Early Literacy Childhood NYC Performance Standards	Content Activities	Technology-based Performance Products/Projects	Technology standards	Suggested Software and Resources	Web Sites
					The LightSpan Network http://www.lightspan.com Merriam-Webster Online: Online dictionary, thesaurus, and vocabulary builders. http://www.m-w.com
Grade 3	Routinely rework, revise, edit and proofread work. Write for a specific purpose. Create own stories, poems, plays and songs.	Create basic journal outline using word processor and spell check. Create mobiles, pictographs, signs, etc. to illustrate the story. Create stories. Write story reviews. Write a research report.	T7. Use age-appropriate digital resources T8. Use related peripheral devices T9. Use word processing T10. Create products T16. Create and implement assessment components	ClarisWorks for Kids AppleWorks-ClarisWorks StoryBook Weaver Deluxe KidPix Orly's Draw a Story Student Writing Center Kid Works Deluxe	A great location for primary literacy activities http://school.aol.com/primary/index.adp Scholastic Online http://www.scholastic.com The Schools of California Online Resources for Educators: language arts links, a teacher resources section, and lesson plans. http://www.sdcoe.k12.ca.us/score/cla.html Kathy Schrock's Educational Site http://school.discovery.com/schrockguide/ The LightSpan Network http://www.lightspan.com Merriam-Webster Online: Online dictionary, thesaurus, and vocabulary builders.

Primary Early Literacy Childhood NYC Performance Standards	Content Activities	Technology-based Performance Products/Projects	Technology standards	Suggested Software and Resources	Web Sites
					http://www.m-w.com
Writing Standard 2: Writing Purposes and Resulting Genres Getting Things Done: Functional Writing Producing & Responding to Literature	By the end of the year, students will:	Students will:	Students will:		
Grade K Sharing Events Telling Stories Narrative Writing Informing others: Report or informational writing	Name and label objects and places. Gather, collect and share information about a topic. Create their own stories, poems, plays and songs. ECLAS INSTRUCTIONAL RESOURCE GUIDE Reading strand levels 1 & 2 Pages 103 – 107 Writing mechanics levels 1 & 2 pages 127 - 129	Create flashcards for new words. Use word processor to write their own stories. Use age-appropriate encyclopedia.	T7. Use age-appropriate digital resources T8. Use related peripheral devices T9. Use word processing T10. Create products	Lightspan Network Flashcard maker and printable worksheets Orchard Software	A great location for primary literacy activities http://school.aol.com/primary/index.adp Scholastic Online http://www.scholastic.com The LightSpan Network http://www.lightspan.com
Grade 1	Share events. Tell stories.	Use draw programs to draw stories. Use word processing	T7. Use age-appropriate digital resources	ClarisWorks for Kids AppleWorks-ClarisWorks	A great location for primary literacy activities http://school.aol.com/primary/index.adp

NYC Performance Standards	Content Activities	Primary Early Literacy Childhood Technology-based Performance Products/Projects	Technology standards	Suggested Software and Resources	Web Sites
	Write narratives. Write recipes. Write story reviews. ECLAS INSTRUCTIONAL RESOURCE GUIDE Reading strand levels 3 & 4 pages 107 – 109 Writing mechanics levels 3 & 4 pages 131 - 133	write stories, narratives recipes and reviews. Create animated books.	T8. Use related peripheral devices T9. Use word processing T10. Create products T13. Use the Internet T16. Create and implement assessment components	Storybook Weaver Deluxe Paint, Write & Play Orly's Draw a Story Student Writing Center Kid Works Deluxe	Scholastic Online http://www.scholastic.com The Schools of California Online Resources for Educators: language arts links, a teacher resources section, and lesson plans. http://www.sdcoe.k12.ca.us/score/cla.html Kathy Schrock's Educational Site http://school.discovery.com/schrockguide/ The LightSpan Network http://www.lightspan.com
Grade 2	Use diagrams, charts or illustrations as appropriate to enhance written text. Write letters to authors telling what they thought or to seek information. Write stories, poems, memoirs, songs and dramas. ECLAS	Create illustrated story book. Use word processing to write to authors. Create a web of a story's plot. Use Internet to select pictures for use in story.	T8. Use related peripheral devices T9. Use word processing T10. Create products T13. Use the Internet T16. Create and implement assessment	ClarisWorks for Kids AppleWorks-ClarisWorks Storybook Weaver Deluxe KidPix Paint, Write and Play Orly's Draw a Story Student Writing Center	A great location for primary literacy activities http://school.aol.com/primary/index.adp Scholastic Online http://www.scholastic.com The Schools of California Online Resources for Educators: language arts links, a teacher resources section, and lesson plans. http://www.sdcoe.k12.ca.us/score/cla.html

NYC Performance Standards	Content Activities	Primary Early Literacy Childhood Technology-based Performance Products/Projects	Technology standards	Suggested Software and Resources	Web Sites
	INSTRUCTIONAL RESOURCE GUIDE Reading strand levels 5 & 6 page 111 Writing mechanics levels 5 & 6 page 133		components	Kid Works Deluxe	Kathy Schrock's Educational Site http://school.discovery.com/schrockguide/ The LightSpan Network http://www.lightspan.com Merriam-Webster Online: Online dictionary, thesaurus, and vocabulary builders. http://www.m-w.com
Grade 3	Creates a sequence of events that unfolds naturally. Use illustrations detailing steps in procedural writing. Compare two works by an author. Write stories, memoirs, poetry & plays.	Create illustrated story and poetry book. Use word processor to write to authors. Create a graphic web of a story's plot. Crreate a slide show comparison of works of the author. Create autobiographical timeline.	T7. Use age-appropriate digital resources T8. Use related peripheral devices T9. Use word processing T10. Create products T13. Use the Internet T16. Create and implement assessment components	AppleWorks-ClarisWorks KidPix Storybook Weaver Deluxe Inspiration Timeliner HyperStudio Student Writing Center Kid Works Deluxe	A great location for primary literacy activities http://school.aol.com/primary/index.adp Scholastic Online http://www.scholastic.com The Schools of California Online Resources for Educators: language arts links, a teacher resources section, and lesson plans. http://www.sdcoe.k12.ca.us/score/cla.html Kathy Schrock's Educational Site http://school.discovery.com/schrockguide/

NYC Performance Standards	Content Activities	Primary Early Literacy Childhood Technology-based Performance Products/Projects	Technology standards	Suggested Software and Resources	Web Sites
					The LightSpan Network http://www.lightspan.com Merriam-Webster Online: Online dictionary, thesaurus, and vocabulary builders. http://www.m-w.com
Writing Standard 3: Language Use and Conventions Style & Syntax Vocabulary & Word choice Spelling Conventions	By the end of the year, students will:	Students will:	Students will:		
Grade K	Write using inventive spelling. Write words used in daily speech. ECLAS INSTRUCTIONAL RESOURCE GUIDE Writing mechanics levels 1 & 2 pages 127 – 129 Phonemic awareness levels 1 & 2 page 87	Create an original illustrated story. Create pictorial flashcards of new words.	T7. Use age-appropriate digital resources T8. Use related peripheral devices T9. Use word processing T10. Create products T13. Use the Internet	Cornerstone Vocabulary Storybook Weaver KidPix Stanley's Sticker Stories Orly's Draw-a- Story Student Writing Center Kid Works Deluxe	A great location for primary literacy activities http://school.aol.com/primary/index.adp Scholastic Online http://www.scholastic.com The LightSpan Network http://www.lightspan.com
Grade 1	Draw on a range of resources to spell	Create pictorial flashcards for new	T7. Use age-appropriate digital	KidPix	A great location for primary literacy activities

Primary Early Literacy Childhood NYC Performance Standards	Content Activities	Technology-based Performance Products/Projects	Technology standards	Suggested Software and Resources	Web Sites
	unfamiliar words. Produce writing which uses words in their speaking vocabulary. Demonstrate awareness by approximating the use of punctuation. Use newly learned words in writing. ECLAS INSTRUCTIONAL RESOURCE GUIDE Writitng mechanics levels 3 & 4 pages 131 – 133 Phonemic awareness level 3 & 4 page 89	words. Write and illustrate stories. Use digital dictionaries and encyclopedias.	resources T8. Use related peripheral devices T9. Use word processing T10. Create products T13. Use the Internet T16. Create and implement assessment components	Stanley's Sticker Stories Orly's Draw-a- Story Storybook Weaver Deluxe Paint, Write & Play Flash Card Maker Student Writing Center Kid Works Deluxe	http://school.aol.com/primary/index.adp Scholastic Online http://www.scholastic.com The Schools of California Online Resources for Educators: language arts links, a teacher resources section, and lesson plans. http://www.sdcoe.k12.ca.us/score/cla.html Kathy Schrock's Educational Site http://school.discovery.com/schrockguide/ The LightSpan Network http://www.lightspan.com
Grade 2	Produce writing in which most high frequency words are spelled correctly. Extend writing vocabulary by using words related to the topic or setting. Reproduce sentence structures found in various genres.	Create illustrated story books. Use word processor to correspond with authors. Create an graphic web of a story's plot. Use CD-Rom or online thesaurus to find and list synonyms.	T7. Use age-appropriate digital resources T8. Use related peripheral devices T9. Use word processing T10. Create products	AppleWorks-ClarisWorks KidPix Storybook Weaver Deluxe Paint, Write and Play Orly's Draw a Story Student Writing Center	A great location for primary literacy activities http://school.aol.com/primary/index.adp Scholastic Online http://www.scholastic.com The Schools of California Online Resources for Educators: language arts links, a teacher resources section, and lesson plans.

Primary Early Literacy Childhood NYC Performance Standards	Content Activities	Technology-based Performance Products/Projects	Technology standards	Suggested Software and Resources	Web Sites
	ECLAS INSTRUCTIONAL RESOURCE GUIDE Writing mechanics levels 5 & 6 page 133 Phonemic awareness levels 5 & 6 page 91		T13. Use the Internet T16. Create and implement assessment components	Kid Works Deluxe	http://www.sdcoe.k12.ca.us/score/cla.html Kathy Schrock's Educational Site http://school.discovery.com/schrockguide/ The LightSpan Network http://www.lightspan.com
Grade 3	Produce writing in which most high frequency words are spelled correctly. Use strategies to edit spelling and punctuation. Extend writing vocabulary by using specialized words related to topic.	Create illustrated story and poetry book. Use word processor and spell check. Create a graphic web of a story's plot. Create a slide show comparison of two authors. Use CD-ROM or online dictionary to find and list synonyms.	T7. Use age-appropriate digital resources T8. Use related peripheral devices T9. Use word processing T10. Create products T13. Use the Internet T16. Create and implement assessment components	KidPix Inspiration Paint, Write and Play Orly's Draw a Story AppleWorks-ClarisWorks Storybook Weaver Deluxe EasyBook Deluxe HyperStudio Student Writing Center Kid Works Deluxe	A great location for primary literacy activities http://school.aol.com/primary/index.adp Scholastic Online http://www.scholastic.com The Schools of California Online Resources for Educators: language arts links, a teacher resources section, and lesson plans. http://www.sdcoe.k12.ca.us/score/cla.html Kathy Schrock's Educational Site http://school.discovery.com/schrockguide/ The LightSpan Network http://www.lightspan.com

NYC Performance Standards	Content Activities	Primary Early Literacy Technology-based Performance Products/Projects	Childhood Technology standards	Suggested Software and Resources	Web Sites
					Merriam-Webster Online: Online dictionary, thesaurus, and vocabulary builders. http://www.m-w.com

English Language Arts
Elementary School

Language Arts Elementary School **Nyc performance standards**	**Content activities**	**Technology-based Performance products/projects**	**Technology standards**	**Suggested Software and Resources**	**Web Sites**
E1 Reading	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		A great location for primary literacy activities http://school.aol.com/elementary/index.adp Scholastic Online http://www.scholastic.com The Schools of California Online Resources for Educators: language arts links, a teacher resources section, and lesson plans. http://www.sdcoe.k12.ca.us/score/cla.html Kathy Schrock's Educational Site http://school.discovery.com/schrockguide/ Merriam-Webster Online: Online dictionary, thesaurus, and vocabulary builders. http://www.m-w.com The LightSpan Network http://www.lightspan.com
E1a Read twenty-five	Read articles and	Use the Internet as a	T7. Use age-	AppleWorks-	Mr. William Shakespeare

Language Arts Elementary School **Nyc performance standards**	**Content activities**	**Technology-based Performance products/projects**	**Technology standards**	**Suggested Software and Resources**	**Web Sites**
books of the quality and complexity illustrated in the sample reading list.	stories. Create a reading log (titles, authors, genre, and comments). Use and create webs as planning devices.	resource. Use databases.	appropriate digital resources T11. Use and create databases T13. Use the Internet	ClarisWorks MS Office	http://daphne.palomar.edu/shakespeare/
E1b Read and comprehend at least four books on the same subject, or by the same author, or in the same genre and produce evidence of reading.	Sort and analyze words, plot trends, settings by specific authors. Create graphic organizers to chart information and compare/contrast. Produce a literary response paper.	Use databases. Design a plot and character web. Create an alternate ending to a story. Use drawing tools. Create graphic organizers.	T7. Use age-appropriate digital resources T10. Create products T11. Use and create databases	AppleWorks-ClarisWorks MS Office Inspiration KidPix Studio	The Realm of Books and Dreams: a wide array of children's stories, fables, fairytales and mysteries. Includes homework help and activities for children. http://www.bconnex.net/~mbuchana/realms/page1/index.html The Encyclopedia Mythica: An encyclopedia of mythology, folklore and legends. http://www.pantheon.org/mythica Sparknotes: Online study guides for literary works http://www.thespark.com/sparknotes/
E1c Read and comprehend informational materials to develop understanding and expertise and produces written or oral work	Create webs as planning devices. Create a magazine. Use encyclopedias.	Use desktop publishing Use CD-ROM libraries and digital encyclopedias. Create a magazine.	T7. Use age-appropriate digital resources T10. Create products	AppleWorks-ClarisWorks MS Office Press Writer	Library of Congress http://www.loc.gov MidLink Magazine: interactive 'zine for middle-schoolers to promote creative writing http://longwood.cs.ucf.edu/~Mid

Language Arts Elementary School					
Nyc performance standards	**Content activities**	**Technology-based Performance products/projects**	**Technology standards**	**Suggested Software and Resources**	**Web Sites**
	Contribute to an attribute book Present information to an audience of peers	Create a multimedia presentation. Create graphic organizers.		Student Writing Center DK Multimedia Encyclopedia Golden Book Digital Encyclopedia MS Encarta Grolier's Encyclopedia Inspiration	Link/ Merriam-Webster Online: http://www.m-w.com/ The Internet Public Library http://www.ipl.org/ United States Holocaust Memorial Museum: The Museum's archives, including photographs, transcripts of lectures, and guidelines for teaching the Holocaust. http://www.ushmm.org/
E1d Read aloud fluently.	Read original stories to younger children. Present plot summaries to the class. Create webs as planning devices.	Create an slide show or animation of a story. Create a portfolio of plot synopses. Create graphic organizers.	T7. Use age-appropriate digital resources T10. Create products T13. Use the Internet	AppleWorks-ClarisWorks MS Office Student Writing Center Inspiration HyperStudio	The Federal Web Locator: a list of all Federal government information on the Internet. http://www.law.vill.edu/fed-agency/fedwebloc.html GovBot: allows searches of U.S. government Web pages, documents, statistics, agencies, departments and resources. http://www.nwbuildnet.com/nwbn/govbot.html The Jonsson Library of Government Documents: a collection of both American and foreign materials http://www-sul.stanford.edu/depts/jonsson/

Language Arts Elementary School Nyc performance standards	Content activities	Technology-based Performance products/projects	Technology standards	Suggested Software and Resources	Web Sites
					The National Archives and Records Administration: primary documents for use in the classroom. http://www.nara.gov/
E2 Writing	Students will:	Students will:	Students will: (t1-t6 are implied throughout the listed activities)		
E2a Produce a report of information.	Write an informative report. Write an "all-about" book. Write a chapter book. Create webs as planning devices.	Recognize and use keywords to narrow a search. Import or scan pictures and charts to support information. Use the Internet as a resource and to gather digital images. Create graphic organizers.	T7. Use age-appropriate digital resources T8. Use related peripheral devices. T9. Use word processing T10- create products T13. Use the Internet T14- select appropriate technologies T15- understand and practice responsible use of information	AppleWorks-ClarisWorks MS Office Adobe Photoshop KidPix Studio Student Writing Center Inspiration	TIME For Kids: the popular magazine, features views of current events from kids' perspectives http://www.pathfinder.com/TFKI Alphabet Superhighway Cyberzine: www.ash.udel.edu/ash/index.html Writing Den: writing and reading exercises with good graphics and audio. http://www2.actden.com/writ_den/index.htm AOL presents an excellent multi-purpose site: www.school.aol.com

Language Arts Elementary School **Nyc performance standards**	**Content activities**	**Technology-based Performance products/projects**	**Technology standards**	**Suggested Software and Resources**	**Web Sites**
E2b Produce a response to literature.	Write: A book review; A parody; A literary analysis paper; or A comparison of a children's literary classic with a televised version. Create and illustrate original stories mirroring the text. Publish book reviews in a literary newsletter. Create pop-up or tunnel books. Create an info web	Use word processing. Use and create graphics. Create graphic organizers.	T7. Use age-appropriate digital resources T8. Use related peripheral devices. T9. Use word processing T10- create products T13. Use the Internet T14- select appropriate technologies T15- understand and practice responsible use of information	HyperStudio AppleWorks-ClarisWorks MS Office Press Writer Student Writing Center Inspiration	Interactive Language Arts and Journalism Page: Students can discover what's behind the who, what, where, when and why as they take on the roles of journalists. http://www.writesite.org Fascinating topics: http://edsitement.neh.gov/websites.html Inkspots, workshops & tutorials for young writers, including tips on how books get published: http://www.interlog.com/~ohi/inkspot/young.htm
E2c Produce a narrative account (fictional or autobiographical).	Write: An autobiographical account; An imaginative story; A narrative picture book; or A retelling of a traditional tale from an alternate point of view	Create graphic organizers as part of the pre-writing process. Use word processing to write a report. Import photographic images to enhance personal writing.	T7. Use age-appropriate digital resources T8. Use related peripheral devices. T9. Use word processing	Inspiration AppleWorks-ClarisWorks MS Office Click Art	Documenting the American South: primary materials documenting the cultural history of the American South from the viewpoint of Southerners. http://metalab.unc.edu/docsouth/ Fascinating topics: http://edsitement.neh.gov/websites.html

Language Arts Elementary School **Nyc performance standards**	**Content activities**	**Technology-based Performance products/projects**	**Technology standards**	**Suggested Software and Resources**	**Web Sites**
	Create webs as planning devices	Create an audio slide story. Use the Internet as a resource and to gather digital images. Create graphic organizers.	T10. Create products T13. Use the Internet T14. Select appropriate technologies T15 Understand and practice responsible use of information		Bartlett's Familiar Quotations (Who said What?) http://www.columbia.edu/acis/bartleby/bartlett/ Biography.Com: The World's Best Bios http://www.biography.com/
E2d Produce a narrative procedure.	Create: A how-to book; A set of rules for playing a game; A chapter book based on procedures; Rules for running a class meeting; or Procedures for accessing information in the library. Create an illustrated recipe book using word processing or desktop publishing. Devise and create a board game with rules.	Use word processing. Use desktop publishing to create an illustrated recipe book. Use the Internet as a resource and to gather digital images. Create graphic organizers.	T7. Use age-appropriate digital resources T8. Use related peripheral devices. T9. Use word processing T10. Create products T13. Use the Internet T14. Select appropriate technologies	Inspiration AppleWorks-ClarisWorks MS Office PressWriter KidPix Studio	Online recipe for Dr. Seuss's green eggs and ham: www.randomhouse.com/seussville Realkids is an informative site for young writers, featuring guidelines and hints as well as book reviews: www.realkids.com/club.shtml

Language Arts Elementary School Nyc performance standards	Content activities	Technology-based Performance products/projects	Technology standards	Suggested Software and Resources	Web Sites
	Prepare a research manual for using the library. Create webs as planning devices.		T15. Understand and practice responsible use of information		
E3 Speaking, Listening and Viewing	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		
E3a Participate in one-to-one conferences with the teacher, paraprofessional or adult volunteer.	Present and discuss a draft book review, report or interview. Analyze a TV or movie program with a teacher or parent. Discuss a collection of the student's work with an adult. Create webs as planning devices.	Create a multimedia presentation. Create a "Roger Ebert" type TV show discussing a book. Use word processing to write a report. Create graphic organizers.	T7. Use age-appropriate digital resources. T8. Use peripheral devices. T9 . Use word processing. T10. Create products. T13. Use the Internet.	HyperStudio AppleWorks-ClarisWorks MS Office KidPix Studio Apple iMovie Inspiration	Great Speeches: audio library of famous speeches. Includes speeches by Martin Luther King Jr., Mahatma Gandhi, and feminist Gloria Steinem, et al. http://www.historychannel.com/speeches/

Language Arts Elementary School **Nyc performance standards**	**Content activities**	**Technology-based Performance products/projects**	**Technology standards**	**Suggested Software and Resources**	**Web Sites**
E3b Participate in group meetings.	Participate in live author conferences. Create a plan for a group project. Create webs as planning devices. Role play to better understand an historical event. Have an on-line debate. Stage a remote panel discussion.	Create a multimedia presentation. Use word processing. Create graphic organizers.	T7. Use age-appropriate digital resources T9. Use word processing T13. Use the Internet	MS Office AppleWorks-ClarisWorks Inspiration HyperStudio	Book Radio – Listen to interviews with contemporary authors. http://www.bookradio.com
E3c Prepare and deliver an individual presentation.	Develop a multimedia presentation for a report, review or persuasive essay. Record a report presented as a newsperson. Report on research of a topic of interest to the class Present an explanation of a science project to parents	Emcee a multimedia presentation. Create a multimedia presentation. Use word processing to write a report. Create graphic organizers.	T7. Use age-appropriate digital resources T9. Use word processing T10. Create products T13. Use the Internet	HyperStudio KidPix Studio AppleWorks-ClarisWorks MS Office Press Writer Student Writing Center Inspiration	Eserver: Literary collections & links (including multimedia). http://english-server.hss.cmu.edu/ Giving a Speech: lists eight communication power tools for delivering a speech http://www.agric.gov.ab.ca/ruraldev/rurallea/rgvsp1.html

Language Arts Elementary School **Nyc performance standards**	**Content activities**	**Technology-based Performance products/projects**	**Technology standards**	**Suggested Software and Resources**	**Web Sites**
	Create webs as planning devices				
E3d Make informed judgments about T.V., radio, and film productions.	Present a paper on reasons for selecting one media choice over another. Analyze the appeal of certain commercials.	Create a report. Record a report presented as a newsperson. Create a multimedia presentation.	T7. Use age-appropriate digital resources T9. Use word processing T13. Use the Internet	AppleWorks-ClarisWorks MS Office Student Writing Center	
E4 Conventions Grammar, and Usage of the English Language	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		
E4a Demonstrate a basic understanding of the rules of the English language (in written and oral work). Select the structures and features of language appropriate to the purpose, audience and context of the work.	Write for a variety of purposes. Proofread other students' work. Write the same piece for different audiences.	Create a report. Use the spell check feature of a word processing program. Use the thesaurus feature of a word processing program.	T9. Use word processing	AppleWorks-ClarisWorks MS Office Student Writing Center	Webster Online: grammar lessons, including sentence and essay sections. Includes over 150 interactive quizzes. http://www.webster.commnet.edu/HP/pages/darling/grammar.htm Roget's Thesaurus Online http://humanities.uchicago.edu/forms_unrest/ROGET.html Great vocabulary site: www.syndicate.com/index.html Dictionaries Online http://www.yahoo.com/Reference/Dictionaries/

Language Arts Elementary School **Nyc performance standards**	**Content activities**	**Technology-based Performance products/projects**	**Technology standards**	**Suggested Software and Resources**	**Web Sites**
E4b Analyze and subsequently revise work, to clarity it or make it more effective, in communicating the intended message or thought.	Revise work. Incorporate suggestions of peers into a written piece. Critique the writing of a peer.	Use formatting functions such as cut/paste, font size, style and bullets. Use word processing.	T9. Use word processing	AppleWorks-ClarisWorks MS Office Student Writing Center	
E 5: literature	Students will:	Students will:	Students will: (t1-t6 are implied throughout the listed activities)		
E5a Respond to non-fiction, fiction, poetry, and drama using interpretive and critical processes.	Determine why certain characters behave the way they do. Create webs as planning devices. Create a verse by verse paraphrase of a poem. Make connections between literary works based on a single theme.	Create multimedia presentations. Use desktop publishing. Use word processing. Create graphic organizers.	T9. Use word processing T10. Create products	HyperStudio AppleWorks-ClarisWorks MS Office Press Writer Student Writing Center Inspiration	Mark Twain resources. http://marktwain.miningco.com/ The C. S. Lewis Web Site http://www.cache.net/~john/cslewis/index.html Emily Dickinson's Poetry http://www.inform.umd.edu:8080/EdRes/Topic/WomensStudies/ReadingRoom/Poetry/Dickinson American Verse Project: archive of American poetry prior to 1920. http://www.hti.umich.edu/english/amverse/
E5b Produce work in at least one genre that follows the conventions of the	Create an original work in a particular genre. Create webs as	Use graphics and formatting functions. Create a multimedia	T9. Use word processing T10. Create	AppleWorks-ClarisWorks MS Office	Surfing with the Bard: Your Shakespeare Classroom on the Internet http://www.ulen.com/shakespear

Language Arts Elementary School **Nyc performance standards**	**Content activities**	**Technology-based Performance products/projects**	**Technology standards**	**Suggested Software and Resources**	**Web Sites**
genre.	planning devices.	presentation that illustrates an original work. Create graphic organizers.	products	HyperStudio Inspiration	e/ Realkids is an informative site for young writers, featuring guidelines and hints as well as book reviews: www.realkids.com/club.shtml Bibliomania: classic books and references http://www.bibliomania.com/

English Language Arts
Middle School

Language Arts Middle School					
Nyc performance standards	Content activities	Technology-based Performance products/projects	Technology standards	Suggested Software and Resources	Web Sites
E1 Reading	Students will:	Students will:	Students will: (t1-t6 are implied throughout the listed activities)		
E1a Read twenty-five books of the quality and complexity illustrated in the sample reading list.	Read articles and stories. Create a reading log (titles, authors, genre, and comments). Use and create webs as planning devices.	Use the Internet and digital encyclopedias for content-specific research and author information. Create a reading log database and print a report of books read. Create graphic organizers.	T7. Use age-appropriate digital resources T11. Use and create databases T13. Use the Internet	AppleWorks-ClarisWorks MS Office Inspiration	The Children's Literature Web Guide: resources related to books for children and young adults. http://www.acs.ucalgary.ca/~dkbrown/aboutclwg.html Mr. William Shakespeare http://daphne.palomar.edu/shakespeare/
E1b Read and comprehend at least four books on the same subject, or by the same author, or in the same genre and produce evidence of reading comprehension.	Sort and analyze word usage, plot trends, settings by specific authors. Create graphic organizers to chart information and compare/contrast. Produce a literary response or informative	Create a reading log database and print a booklist organized according to author, theme or genre. Use drawing tools or graphic organizers to create Venn diagrams that compare and contrast themes, characters, and ideas.	T9. Use word processing T10. Create products T11. Use and create databases	AppleWorks-ClarisWorks MS Office Inspiration KidPix Studio	The Realm of Books and Dreams: a wide array of children's stories, fables, fairytales and mysteries. Includes homework help and activities for children. http://www.bconnex.net/~mbuchana/realms/page1/index.html The Encyclopedia Mythica: An encyclopedia of mythology, folklore and legends.

Language Arts Middle School					
Nyc performance standards	Content activities	Technology-based Performance products/projects	Technology standards	Suggested Software and Resources	Web Sites
	report. Produce illustrated synopses of stories read.	 Use a word processor to write, edit and publish a literary response or informative report. Use a graphics program to create illustrated booklet.			http://www.pantheon.org/mythica Sparknotes: Online study guides for literary works http://www.thespark.com/sparknotes/
E1c Read and comprehend informational materials to develop understanding and expertise and produce written or oral work	Use encyclopedias for research. Create a magazine. Write a report, speech or position paper. Create a multimedia presentation. Use and create webs as planning devices.	Use CD-ROM libraries and digital encyclopedias. Use the Internet as a resource to locate and acquire appropriate information. Publish printed material. Use a word processor to create a report, speech or position paper. Use presentation software to produce a slideshow. Use digital camcorders and moviemaking	T7. Use age-appropriate digital resources T8. Use related peripheral devices T9. Use word processing T10. Create products T13. Use the Internet.	DK Eyewitness Multimedia Encyclopedia Golden Book Digital Encyclopedia MS Encarta Grolier’s Encyclopedia Compton’s Digital and Online Encyclopedia World Book Digital Encyclopedia AppleWorks-ClarisWorks Apple iMovie Adobe Premiere	Library of Congress http://www.loc.gov MidLink Magazine: interactive 'zine for middle-schoolers to promote creative writing http://longwood.cs.ucf.edu/~MidLink/ Merriam-Webster Online: The Language Center - Online dictionary, thesaurus, and vocabulary builders. http://www.m-w.com/ The Internet Public Library http://www.ipl.org/ United States Holocaust Memorial Museum: The Museum's archives, including photographs, transcripts of lectures, and guidelines for

Language Arts Middle School					
Nyc performance standards	Content activities	Technology-based Performance products/projects	Technology standards	Suggested Software and Resources	Web Sites
		software to create a digital movie. Create graphic organizers.		MS Office Inspiration KidPix Studio Press Writer Student Writing Center Adobe PageMaker	teaching the Holocaust. http://www.ushmm.org/
E1d Demonstrate familiarity with a variety of public documents and produce a written or oral work.	Review laws, regulations, records, documents, and bulletins. Respond to a magazine or news article. Produce a persuasive essay on a controversial topic.	Use the Internet as a resource to access public documents and news articles. Use digital databases to access news and magazine abstracts and complete articles. Use a word processor to create a summary and critique of article(s). Use a word processor to write, edit and print a letter to an editor in response to an article of local or national importance.	T7. Use age-appropriate digital resources T9. Use word processing T11. Use and create databases T13. Use the Internet.	AppleWorks-ClarisWorks MS Office KidPix Studio Student Writing Center	The Federal Web Locator: a list of all Federal government information on the Internet. http://www.law.vill.edu/fed-agency/fedwebloc.html GovBot: allows searches of U.S. government Web pages, documents, statistics, agencies, departments and resources. http://www.nwbuildnet.com/nwbn/govbot.html The Jonsson Library of Government Documents: a collection of both American and foreign materials http://www-sul.stanford.edu/depts/jonsson/ The National Archives and Records Administration:

Language Arts Middle School					
Nyc performance standards	Content activities	Technology-based Performance products/projects	Technology standards	Suggested Software and Resources	Web Sites
					primary documents for use in the classroom. http://www.nara.gov/ N.Y. Times online http://www.nytimes.com/
E1e Demonstrate familiarity with a variety of functional documents.	Design coupons, flyers, catalogues, and directories.	Use desktop publishing to design coupons, flyers, catalogues, and directories. Use word processing to design coupons, flyers, catalogues, and directories. Use and create graphics.	T9. Use word processing T10. Create products	AppleWorks-ClarisWorks MS Office KidPix Studio Adobe PageMaker Press Writer Print Shop Student Writing Center	Great site for all kinds of graphics http://www.ditto.com
E2 Wwriting	Students will:	Students will:	Students will: (t1-t6 are implied throughout the listed activities)		
E2a Produce a report of information.	Recognize and use keywords. Use pictures and charts to support information.	Use the Internet as a resource. Use and create graphics. Use a scanner to	T7. Use age-appropriate digital resources T8. Use related peripheral devices	AppleWorks-ClarisWorks MS Office Inspiration	TIME For Kids: the popular magazine, features views of current events from kids' perspectives http://www.pathfinder.com/TFKI

Language Arts Middle School					
Nyc performance standards	Content activities	Technology-based Performance products/projects	Technology standards	Suggested Software and Resources	Web Sites
	Create a report in various formats.	import student drawings. Use word processing to produce a report.	T9. Use word processing T13. Use the Internet	KidPix Studio Adobe Photoshop Student Writing Center	Great site for all kinds of graphics http://www.ditto.com
E2b Produce a response to literature.	Create and illustrate original stories mirroring the text. Publish book reviews in a literary newsletter. Use and create webs as planning devices.	Create multimedia presentations. Use desktop publishing to publish book reviews. Create graphic organizers.	T9. Use word processing T10. Create products	AppleWorks-ClarisWorks MS Office HyperStudio Inspiration Press Writer Adobe PageMaker Student Writing Center	Interactive Language Arts and Journalism Page: Students can discover what's behind the who, what, where, when and why as they take on the roles of journalists. http://www.writesite.org Inkspots, workshops & tutorials for young writers, including tips on how books get published: http://www.interlog.com/~ohi/inkspot/young.htm
E2c Produce a narrative account (fictional or autobiographical).	Create graphic organizers as part of the pre-writing process. Import photographic images to enhance personal writing. Write illustrated account.	Create a multimedia presentation. Use desktop publishing to publish a narrative account. Create graphic organizers.	T8. Use related peripheral devices T9. Use word processing T10. Create products	Inspiration AppleWorks-ClarisWorks MS Office Click Art Inspiration	Documenting the American South: primary materials documenting the cultural history of the American South from the viewpoint of Southerners. http://metalab.unc.edu/docsouth/ Bartlett's Familiar Quotations (Who said What?) http://www.columbia.edu/acis/bartleby/bartlett/ Biography.Com: The World’s

Language Arts Middle School					
Nyc performance standards	Content activities	Technology-based Performance products/projects	Technology standards	Suggested Software and Resources	Web Sites
					Best Bios http://www.biography.com/
E2d Produce a narrative procedure.	Create a storyboard. Illustrate steps in a procedure. Use and create webs as planning devices. Change font size, style and to help create a visual hierarchy.	Create a multimedia presentation. Use desktop publishing to publish a narrative procedure. Create graphic organizers.	T8. Use related peripheral devices T9. Use word processing T10. Create products	KidPix Studio Inspiration AppleWorks-ClarisWorks MS Office HyperStudio	Interactive Language Arts and Journalism Page: Students can discover what's behind the who, what, where, when and why as they take on the roles of journalists. www.writesite.org Great site for all kinds of graphics www.ditto.com
E2e Produce a persuasive essay.	Develop, revise, and publish a position paper Represent data that supports a viewpoint	Use CD-ROM libraries, digital encyclopedias and online forums Use desktop publishing to publish a persuasive essay. Add a data chart into a word-processed report. Use the Internet as a resource to access public documents and news articles.	T7. Use age-appropriate digital resources T9. Use word processing T12. Use and create spreadsheets T13. Use the Internet	AppleWorks-ClarisWorks MS Office DK Multimedia Encyclopedia Golden Book Digital Encyclopedia MS Encarta Grolier’s Encyclopedia	Interactive Language Arts and Journalism Page: Students can discover what's behind the who, what, where, when and why as they take on the roles of journalists. www.writesite.org Great site for all kinds of graphics www.ditto.com
E3 Speaking, Listening and Viewing	Students will:	Students will:	Students will: (T1-T6 are implied throughout the		(Applies to all listening standards) Book Radio - Listen to

Language Arts Middle School					
Nyc performance standards	Content activities	Technology-based Performance products/projects	Technology standards	Suggested Software and Resources	Web Sites
			listed activities)		interviews with contemporary authors. http://www.bookradio.com
E3a Participate in one-to-one conferences with the teacher.	Present and discuss a book review, report or interview. Use and create webs as planning devices.	Create multimedia presentations. Create graphic organizers.	T10. Create products	HyperStudio AppleWorks-ClarisWorks MS Office Inspiration KidPix Studio	Great Speeches: audio library of famous speeches. Includes speeches by Martin Luther King Jr., Mahatma Gandhi, and feminist Gloria Steinem. http://www.historychannel.com/speeches/
E3b Participate in group meetings.	Participate in live author conferences.	Communicate with an author in an online discussion forum.	T7. Use age-appropriate digital resources T13. Use the Internet		Chat with authors online www.scholastic.com
E3c Prepare and deliver an individual presentation.	Develop a presentation for a report, review or persuasive essay. Use and create webs as planning devices. Create a document to be used in a presentation.	Create a multimedia presentation. Create graphic organizers Use desktop publishing to publish a presentation.	T7. Use age-appropriate digital resources T10. Create products	HyperStudio KidPix Studio AppleWorks-ClarisWorks MS Office Inspiration Press Writer	Eserver: Literary collections & links (including multimedia). http://english-server.hss.cmu.edu/ Giving a Speech: lists eight communication power tools for delivering a speech http://www.agric.gov.ab.ca/ruraldev/rurallea/rgvsp1.html

Language Arts Middle School					
Nyc performance standards	Content activities	Technology-based Performance products/projects	Technology standards	Suggested Software and Resources	Web Sites
				Adobe PageMaker Student Writing Center	
E3d Make informed judgments about T.V., radio, and film.	Access reviews from various sources (out-of-town newspapers or national magazines) to read and evaluate. Write a press review of a T.V., radio program, or movie.	Use the Internet as a resource to access public documents and news articles. Use desktop publishing to publish a critique.	T7. Use age-appropriate digital resources T13. Use the Internet	AppleWorks-ClarisWorks MS Office Press Writer Adobe PageMaker Student Writing Center	Great site of reviews of different programming. http://tv.yahoo.com/main/ Public Television review site http://cinemaclips.com/ More Reviews http://www.reelingreviews.com/
E4 Conventions of Grammar and Usage of the English Language	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		Dictionaries Online http://www.yahoo.com/Reference/Dictionaries/
E4a Demonstrate an understanding of the rules of the English language in written and oral work.	Write for a variety of purposes.	Use desktop publishing to publish a report.	T9. Use word processing	MS Office AppleWorks-ClarisWorks Student Writing Center	Webster Online: grammar lessons, including sentence and essay sections. Includes over 150 interactive quizzes. http://www.webster.commnet.edu/HP/pages/darling/grammar.htm Roget's Thesaurus Online http://humanities.uchicago.edu/forms_unrest/ROGET.html Writing Den: writing and reading exercises with good graphics and audio. http://www2.actden.com/writ_de

Language Arts Middle School					
Nyc performance standards	Content activities	Technology-based Performance products/projects	Technology standards	Suggested Software and Resources	Web Sites
					n/index.htm
E4b Analyze and subsequently revise work to improve its clarity and effectiveness.	Revise work.	Use word processing formatting functions such as cut/paste, font size, style and bullets, spell check and grammar check.	T9. Use word processing	MS Office AppleWorks-ClarisWorks	Writing Den: writing and reading exercises with good graphics and audio. http://www2.actden.com/writ_den/index.htm
E5 Literature	Students will:	Students will:	Students will: (t1-t6 are implied throughout the listed activities)		

Language Arts Middle School					
Nyc performance standards	Content activities	Technology-based Performance products/projects	Technology standards	Suggested Software and Resources	Web Sites
E5a Respond to non-fiction, fiction, poetry, and drama using interpretive and critical processes.	Share personal reactions, responses or reflections about works of fiction, poetry, non-fiction or drama. Develop a literature review process.	Create a multimedia response to literature. Use desktop publishing to publish a response to literature.	T9. Use word processing T10. Create products	MS Office AppleWorks-ClarisWorks Press Writer Adobe PageMaker Student Writing Center	Mark Twain Resources http://marktwain.miningco.com/ The C. S. Lewis Web Site http://www.cache.net/~john/cslewis/index.html Emily Dickinson's Poetry http://www.inform.umd.edu:8080/EdRes/Topic/WomensStudies/ReadingRoom/Poetry/Dickinson American Verse Project: archive of American poetry prior to 1920. http://www.hti.umich.edu/english/amverse/
E5b Produce work in at least one genre that follows the conventions of the genre.	Create an original work in a particular genre.	Use desktop publishing to publish a response to literature. Use graphics and formatting functions.	T9. Use word processing T10. Create products	KidPix Studio MS Office AppleWorks-ClarisWorks	Surfing with the Bard: Your Shakespeare Classroom on the Internet http://www.ulen.com/shakespeare/ Bibliomania: classic books and references http://www.bibliomania.com/

Mathematics
Early Childhood

Mathematics Early Childhood					
Nyc performance standards	Content Activities	Technology-Based Performance Productss/Projects	Technology Standards	Suggested Software and Resources	Web Sites
M1 Arithmetic and Number Concepts	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		
M1a Add, subtract, multiply, and divide whole numbers with and without calculators.	Add and subtract numbers. Multiply numbers. Demonstrate the commutative property of addition and multiplication. Divide numbers.	Use painting program number stamps to have students add, subtract and multiply numbers. Use painting program number stamps or their own drawings to illustrate equations such as 3 + 2 = 2 + 3 and 3 x 2 = 2 x 3. Use painting program number stamps or their own drawings to group and share a certain number of items.	T7. Use age-appropriate digital resources T10. Create products	KidPix Millie's Math House Mighty Math Zoo Zillions Mighty Math Carnival Countdown	Basic Calculator on line: http://www-sci.lib.uci.edu/HSG/RefCalculators2.html#SIMP Seussville Math: children will learn to recognize numerals and number words, to count, and to do simple addition through on-screen games or downloaded printouts. http://www.randomhouse.com/seussville/university/math
M1b Demonstrate understanding of the base ten value sysetm and use this knowledge to solve arithmetic calculations.	Show place value of two and three digit numbers.	Use drawing software to create coins that illustrates place value.	T7. Use age-appropriate digital resources T10. Create products	KidPix Millie's Math House Mighty Math Zoo Zillions	Digital Flashcards: http://edu4kids.com/math/

Mathematics Early Childhood					
Nyc performance standards	Content Activities	Technology-Based Performance Productss/Projects	Technology Standards	Suggested Software and Resources	Web Sites
				Mighty Math Carnival Countdown	
M1c	n/a	n/a	n/a	n/a	n/a
M1d Describe and compare quantities by using concrete and real world models of simple fractions.	Find simple parts of whole. Recognize the place of simple fractions on number lines.	Use software to draw real world objects, such as a pizza pie, to recognize parts of the whole or simple fractions. Use software to draw a number line (0 to 1) with correctly placed simple fractions.	T10. Create products	KidPix Mighty Math Calculating Crew	
M1e	n/a	n/a	n/a	n/a	n/a
M1f	n/a	n/a	n/a	n/a	n/a
M2 Geometry and Measurement Concepts	Students will:	Students will:	Students will:		
M2a Give and respond to directions about location.	Locate places on a simple street map.	Create pictures that describe the following terms: “in front of,” “right,” and “above.”	T10. Create products	KidPix Trudy’s Time and Place House	Seussville Reasoning Children will compare size, number, patterns, and directions and learn about opposites through on-screen games or downloaded printouts. http://www.randomhouse.com/seussville/university/reasoning/
M2b Visualize and represent two-dimensional views of simple rectangular	Show the front, back and side views of buildings.	Use drawing software to create geometric shapes.	T7. Use age-appropriate digital resources	KidPix Millie’s Math House	

Mathematics Early Childhood					
Nyc performance standards	Content Activities	Technology-Based Performance Productss/Projects	Technology Standards	Suggested Software and Resources	Web Sites
three-dimensional shapes.			T10. Create products	Mighty Math Calculating Crew TABS+ Community Construction Kit	
M2c	n/a	n/a	n/a	n/a	n/a
M2d Use many types of figures and identify the figures by their properties.	Draw different geometric figures classify them and list their properties.	Use drawing software to create a book character, such as a dog, that contains each category of geometric shapes. Use drawing software to draw symmetrical designs.	T10. Create products	KidPix	
M2e Solve problems by showing relationships between and among figures.	Draw congruent figures.	Use drawing software to check congruence by cutting and pasting.	T10. Create products	KidPix	
M2f Extend and create geometric patterns using concrete and pictoral models.	Create geometric patterns.	Use drawing software to create geometric shapes and picture patterns.	T10. Create products	KidPix	
M2g Use basic ways of estimating and measuring the size of figures and objects in the real world.	Measure the length of lines.	Use drawing software to estimate the length of lines by cutting and pasting a unit of measure along the line.	T10. Create products	KidPix	
M2h	n/a	n/a	n/a	n/a	n/a

Mathematics Early Childhood					
Nyc performance standards	Content Activities	Technology-Based Performance Productss/Projects	Technology Standards	Suggested Software and Resources	Web Sites
M2i	n/a	n/a	n/a	n/a	n/a
M2j	n/a	n/a	n/a	n/a	n/a
M2k	n/a	n/a	n/a	n/a	n/a
M3 Function and Algebra Concepts	Students will:	Students will:	Students will:		
M3a Use linear patterns to solve problems.	Recognize a linear pattern by its rule.	Use painting program stamps or typed numbers to creat a pattern and rule for the pattern.	T10. Create products	KidPix	
M3b	n/a	n/a	n/a	n/a	n/a
M3c	n/a	n/a	n/a	n/a	n/a
M3d	n/a	n/a	n/a	n/a	n/a
M4 Statistics and Probability Concepts	Students will:	Students will:	Students will:		
M4a	n/a	n/a	n/a	n/a	n/a
M4b Display data in line plots, graphs, tables, and charts.	Create picture graphs from data gathered.	Use painting program stamps to create a picture graph.	T10. Create products	The Graph Club	
M4c	n/a	n/a	n/a	n/a	n/a
M4d	n/a	n/a	n/a	n/a	n/a
M4e	n/a	n/a	n/a	n/a	n/a
M4f Find all possible combinations and arrangements within certain constraints (involving a limited number of variables).	Show all the possible arrangements for a given number of items.	Use drawing software to illustrate the various ways two shirts and two pairs of pants can be arranged.	T10. Create products	KidPix	
M5 Problem Solving and Reasoning	Students will:	Students will:	Students will:		
M5a Formulation M5b Implementation	Solve problems presented in a pictorial	Use problem-solving software.	T10. Create products	Millie’s Math House	

Mathematics Early Childhood					
Nyc performance standards	Content Activities	Technology-Based Performance Productss/Projects	Technology Standards	Suggested Software and Resources	Web Sites
M5c Conclusion	format.				
M6 Mathematical Skills and Tools	Students will:	Students will:	Students will:		
M6a	n/a	n/a	n/a	n/a	n/a
M6b	n/a	n/a	n/a	n/a	n/a
M6c	n/a	n/a	n/a	n/a	n/a
M6d	n/a	n/a	n/a	n/a	n/a
M6e	n/a	n/a	n/a	n/a	n/a
M6f Use arithematic signs and symbols, including the decimal point, correctly in number sentences and expressions.	Create an equation using arithematic signs and symbols. Create a fact book.	Use word processing to write number sentences. Create a word problem for your number sentence.	T9. Use word processing T10. Create products	Kid Works Deluxe	CTW Family Workshop Use the search command to type in math concept. Great games for early childhood. http://www.ctw.org/preschool
M6g Read, create, and represent data in line plots, charts, tables, diagrams, bar graphs, simple circle graphs, and coordinate graphs.	Create picture graphs from data.	Use painting program stamps to create a picture graph.	T10. Create products	The Graph Club	
M6h	n/a	n/a	n/a	n/a	n/a
M7 Mathematical Communication	Students will:	Students will:	Students will:		
M7a Use appropriate mathematical terms, vocabulary, and language, based on prior conceptual work.	Explain a math operation.	Create a daily math journal, dictionary, and word problems with “how” and “why” questions.	T9. Use word processing T10. Create products	Kid Works Deluxe	Animated Glossary: http://www.hbschool.com/glossary/math/glossary1.html
M7b Show mathematical ideas in a variety of ways, including words,	Use pictures and symbols to compare different quantities.	Use painting program stamps, or draw pictures, that compare quantities.	T10. Create products	KidPix	

Mathematics Early Childhood					
Nyc performance standards	Content Activities	Technology-Based Performance Productss/Projects	Technology Standards	Suggested Software and Resources	Web Sites
numbers, symbols, pictures, charts, graphs, tables, diagrams, and models.					
M7c Explain soutions to problems clearly and logically, and support solutions with evidence, in both oral and written work.	Demonstrate understanding through oral presentations.	Create a slide show explaining solutions to problems.	T9. Use word processing T10. Create products	KidPix Kid Works Deluxe	Calculator Pattern Puzzles: Explore number patterns and relationships while introducing them to the calculator at the same time. http://explorer.scrtec.org/explorer/explorer-db/html/783749995-447DED81.html
M7d	n/a	n/a	n/a	n/a	n/a
M7e Comprehend mathematics from reading assignments and from other sources.	Read age level appropriate books.	Use word processing to write about how math is used in a book.	T9. Use word processing T10. Create products	Kid Works Deluxe	
M8 Putting Mathematics to Work	Students will:	Students will:	Students will:		
M8a	n/a	n/a	n/a	n/a	n/a
M8b	n/a	n/a	n/a	n/a	n/a
M8c	n/a	n/a	n/a	n/a	n/a
M8d	n/a	n/a	n/a	n/a	n/a
M8e	n/a	n/a	n/a	n/a	n/a

Mathematics
Elementary School

Mathematics Elementary School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
M1 Arithmetic and Number Concepts	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		
M1a Add, subtract, multiply, and divide whole numbers with and without calculators.	Perform arithmetic calculations.	Use the computer's calculator to check mathematical calculations.	T7. Use age-appropriate digital resources	Macintosh Calculator Windows Calculator	Basic Calculator http://www.convertit.com/Go/Maps/Calculators/Math/Basic_Math_Calc.ASP
M1b Demonstrate understanding of the base ten value system and use this knowledge to solve arithmetic calculations.	Demonstrate place value of the base ten value system.	Use drawing software to create models of basic operation concepts. Draw arrays to show meaning of multiplication facts, for exampla, 5x7=35.	T10. Create products	KidPix AppleWorks-ClarisWorks	Basic Calculator http://www.convertit.com/Go/Maps/Calculators/Math/Basic_Math_Calc.ASP
M1c	n/a	n/a	n/a	n/a	n/a
M1d Describe and compare quantities by using simple fractions.	Find simple parts of whole. Recognize the place of simple fractions on number lines.	Use drawing software to represent fractions. Draw a number line (0 to 1) with correctly placed simple fractions.	T7. Use age-appropriate digital resources T10. Create products	KidPix AppleWorks-ClarisWorks Mighty Math Calculating Crew	E-Lab Activities http://www.hbschool.com/elab/index.html Math and Music Students learn that math and music are related as they develop understandings of how mathematical addition can be applied to music.

Mathematics Elementary School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
					http://ericir.syr.edu/Virtual/Lessons/Interdisciplinary/INT0041.html
M1e Describe and compare quantities by using simple decimals.	Draw a chart with 10 equal boxes. Shade in 5 boxes to represent 0.5. Repeat with other values and compare.	Use drawing software to represent decimal values.	T10. Create products	KidPix AppleWorks-ClarisWorks	Shopping Lesson Plan Use this lesson to give the children a chance to apply what they have learned about money. http://ericir.syr.edu/Virtual/Lessons/Mathematics/Applied_Math/APM0009.html
M1f	n/a	n/a	n/a	n/a	n/a
M2 Geometry and Measurement Concepts					
M2a Give, and respond to, directions about location.	Create a neighborhood map. Create a journal to describe how to can travel from one location to another.	Use a drawing or painting program to create map.	T10. Create products	AppleWorks-ClarisWorks KidPix Kid Works Deluxe Neighborhood Map Machine SimCity Trudy's Time and place House	Locate Distances http://mapquest.com
M2b Visualize and represent two-dimensional views of simple rectangular three-dimensional	Create two-dimensional representations of three-dimensional shapes ("nets") using	Explore and create "nets" using software.	T10. Create products	TABS+ Poly Software Mighty Math	Poly Software Download software to view, print and construct polyhedra in 2-D and 3-D form. http://www.peda.com

Mathematics Elementary School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
shapes.	paper and pencil.			Calculating Crew	
M2c Use simple two-dimensional coordinate systems to find locations on a map. Represent points and simple figures.	Plot points or create simple figures on graph paper.	Create two columns of data in a spreadsheet and graph them as an X-Y or scatter chart.	T10. Create products T12. Use and create spreadsheets	AppleWorks-ClarisWorks The Cruncher	
M2d Use many types of figures and identifies the figures by their properties.	Draw different geometric figures, classify them, and list their properties.	Use drawing software to draw different geometric figures. Use drawing software to draw symmetrical designs.	T10. Create products	KidPix AppleWorks-ClarisWorks	
M2e Solve problems by showing relationships between and among figures.	Construct triangles and other shapes that illustrate congruence and similarity.	Use drawing tools to design and label a figures that include a line of symmetry.	T10. Create products	KidPix AppleWorks-ClarisWorks	E-Lab Activities http://www.hbschool.com/elab/index.html
M2f Extend and create geometric patterns using concrete and pictoral models.	Create a pattern quilt, using cloth, tiles, or blocks, that demosntrates repeating patterns.	Use painting or drawing software to create patterns.	T10. Create products	KidPix AppleWorks-ClarisWorks	E-Lab Activities http://www.hbschool.com/elab/index.html
M2g	n/a	n/a	n/a	n/a	n/a
M2h	n/a	n/a	n/a	n/a	n/a
M2i Select and use units for estimating and measuring quantities.	Estimate area and perimeter of a floor plan.	Use drawing tools to determine area and perimeter of figures (e.g., by placing them	T10. Create products	KidPix AppleWorks-ClarisWorks	Math-Kitecture Measure space in the classroom to create a floor plan. http://www.math-kitecture.org

Mathematics Elementary School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
		on grids and counting squares and side units).		Neighborhood Map Machine	E-Lab Activities http://www.hbschool.com/elab/index.html
M2j	n/a	n/a	n/a	n/a	n/a
M2k Use scales in maps and scale drawings.	Calculate distance from one city to another by using a map's scale.	Use appropriate software to create and interpret scale drawings.	T10. Create products	AppleWorks-ClarisWorks Sunburst: Maps and Navigation Mapmaker's Toolkit PrimeTime Math: Cliffbound!!	Math-Kitecture Measure space in the classroom to create a floor plan. http://www.math-kitecture.org
M3 Function and Algebra Concepts	Students will:	Students will:	Students will:		
M3a Use linear patterns to solve problems.	Recognize a linear pattern by its rule.	Use drawing software to create a pattern and state a rule for the pattern.	T10. Create products	AppleWorks-ClarisWorks KidPix	
M3b Build iterations of simple non-linear patterns and recognize that these patterns are not linear.	Create a pattern quilt, using cloth, tiles, or blocks, that demosntrates non-linear/non-repeating patterns.	Use tables, spreadsheets and drawing tools to represent growth patterns, such as square numbers (e.g., $1^2 = 1$ square, $2^2 = 4$ squares).	T10. Create products T12. Use and create spreadsheets	AppleWorks-ClarisWorks The Cruncher	
M3c	n/a	n/a	n/a	n/a	n/a
M3d Use letters, boxes, or other symbols to stand for any number,	Create a table for simple linear equations and plot	Create two columns of data in a spreadsheet and graph them as an	T10. Create products	AppleWorks-ClarisWorks	

Mathematics Elementary School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
measured quantity, or object in simple situations with concrete materials.	those points on a coordinate graph.	X-Y or scatter chart.	T12. Use and create spreadsheets	The Cruncher	
M4 Statistics and Probability Concepts	Students will:	Students will:	Students will:		
M4a Collect and organize data to answer a question.	Construct a survey question and give the survey to everyone in class, then collect the results.	Enter survey data into a spreadsheet and graph the results in multiple formats.	T10. Create products T12. Use and create spreadsheets	AppleWorks-ClarisWorks The Cruncher	
M4b Display data in line plots, graphs, tables, and charts.	Gather data pertaining to daily weather, minutes of homework given, etc.	Enter survey data into a spreadsheet and graph the results in multiple formats.	T10. Create products T12. Use and create spreadsheets	AppleWorks-ClarisWorks The Cruncher	
M4c Make statements and draw simple conclusions based on data.	Interpret data (pertaining to daily weather, minutes of homework given, etc) into a written report.	Produce a report using word processing to interpret and summarize survey data.	T9. Use word processiing T10. Create products	AppleWorks-ClarisWorks MS Office Press Writer Student Writing Center	
M4d	n/a	n/a	n/a	n/a	n/a
M4e	n/a	n/a	n/a	n/a	n/a
M4f Find all possible combinations and arrangements within certain constraints (involving a limited number of variables).	Create a factor-tree for the number 48 (for example).	Use drawing software to illustrate the various ways four shirts and two pairs of pants can be arranged.	T10. Create products	Inspiration AppleWorks-ClarisWorks	

Mathematics Elementary School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
M5 Problem Solving and Reasoning	Students will:	Students will:	Students will:		
M5a Formulation M5b Implementation M5c Conclusion	Solve non-routine word problems.	Use problem solving software to practice logic and reasoning skills. Make a poster of a math word problem	T10. Create products	AppleWorks-ClarisWorks The Logical Journey of the Zoombinis	
M6 Mathematical Skills and Tools	Students will:	Students will:	Students will:		
M6a	n/a	n/a	n/a	n/a	n/a
M6b	n/a	n/a	n/a	n/a	n/a
M6c	n/a	n/a	n/a	n/a	n/a
M6d	n/a	n/a	n/a	n/a	n/a
M6e Refer to geometric shapes and terms correctly with concrete objects or drawings.	Create and identify different parts of a geometric figure using tiles, blocks, or other manipulatives.	Draw geometric shapes and identify angles, sides, and other parts of the figure.	T10. Create products	AppleWorks-ClarisWorks KidPix Mighty Math Cosmic Geometry	Math-Kitecture Identify shapes within architecture. http://www.math-kitecture.org
M6f Use arithmetic symbols and signs (including the decimal point) correctly in number sentences and expressions.	Create a word sentence that uses arithmetic symbols and signs. Create a fact book.	Use word processing to create a word problem for a number sentence.	T9. Use word processing T10. Create products	AppleWorks-ClarisWorks MS Office	
M6g Read, create, and represent data in line plots, charts, tables, diagrams, bar graphs,	Record daily data (time of sunset, weather, etc) and create a table and	Enter data into a spreadsheet and graph the results in multiple formats.	T10. Create products T12. Use and	AppleWorks-ClarisWorks MS Office	

Mathematics Elementary School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
simple circle graphs, and coordinate graphs.	graph from the data.		create spreadsheets	The Cruncher	
M6h Use recall, mental computations...and computers...to achieve solutions.	Find the average of five students' sets of six test scores.	Use a computer calculator and/or a spreadsheet to check results of computation.	T12. Use and create spreadsheets	AppleWorks-ClarisWorks MS Office The Cruncher Macintosh Calculator Windows Calculator	
M7 Mathematical Communication	Students will:	Students will:	Students will:		
M7a Use appropriate mathematical terms, vocabulary, and language, based on prior conceptual work.	Explain a solution to a math problem. Create a daily math journal, dictionary, and word problems with "how" and "why" questions.	Word process a math journal, dictionary, and word problem with "how" and "why" questions.	T9. Use word processing T10. Create products	AppleWorks-ClarisWorks MS Office	Animated Glossary: http://www.hbschool.com/glossary/math/glossary1.html
M7b Show mathematical ideas in a variety of ways, including words, numbers, symbols, pictures, charts, graphs, tables, diagrams, and models.	Create a picture or diagram to explain a mathematical idea.	Use a drawing program to illustrate that 1/2 is greater than 1/3 (for example) or to show the sum of 1/2 and 3/4.	T10. Create products	AppleWorks-ClarisWorks MS Office	
M7c Explain solutions to problems clearly and	Demonstrate understanding through	Create a slide show that logically explains	T9. Use word processing	AppleWorks-ClarisWorks	

Mathematics Elementary School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
logically, and support solutions with evidence, in both oral and written work.	oral presentations.	solutions to problems. Create and describe a flow-chart of both simple and complex activities.	T10. create products	MS Office	
M7d	n/a	n/a	n/a	n/a	n/a
M7e Comprehend mathematics from reading assignments and from other sources.	Read age-level-appropriate books.	Produce a report using word processing to demonstrate how math is used in a book.	T9. Use word processing T10. Create products	AppleWorks-ClarisWorks MS Office	
M8 Putting Mathematics to Work	Students will:	Students will:	Students will:		
M8a Conduct a data study.	Create a survey question (e.g., favorite singer) and distribute it to classmates. Collect the results.	Use a spreadsheet to organize, graph and analyze the data. Use word processing and drawing tools to include graphs, charts and diagrams in a data study report.	T9. Use word processing T10. Create products T12. Use and create spreadsheets.	AppleWorks-ClarisWorks The Cruncher MS Office	
M8b Conduct a science study.	Collect, record, and display data (such as daily sunrise or sunset, cloud formations, pebbles found in the park)	Use a spreadsheet to organize, graph and analyze the data. Use word processing and drawing tools to include graphs, charts and diagrams in a data study report.	T9. Use word processing T10. Create products T12.Use and create spreadsheets	AppleWorks-ClarisWorks MS Office The Cruncher	

Mathematics Elementary School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
M8c Design a physical structure.	Design a fantasy tree house using graph paper, paper and pencil.	Use drawing tools to make a scale drawing of a tree house and label the dimensions of each side. Use a spreadsheet to budget purchases needed to build the treehouse.	T9. Use word processing T10. Create products T12. Use and create spreadsheets	AppleWorks-ClarisWorks MS Office The Cruncher	Math-Kitecture Create a floor plan of a classroom. www.math-kitecture.org
M8d Management and planning.	Plan a class trip to the museum. Include making a schedule, researching costs, and developing a budget.	Use word processing to write/revise plans for the trip. Use a spreadsheet to develop a budget.	T9. Use word processing T10. Create products T12. Use and create spreadsheets	AppleWorks-ClarisWorks MS Office The Cruncher DinoPark Tycoon	
M8e Pure Mathematics Investigation.	Investigate an idea in number theory.	Create a multimedia presentation to explain why a “number trick” works.	T9. Use word processing T10. Create products	AppleWorks-ClarisWorks HyperStudio	

Mathematics
Middle School

Mathematics Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
M1 Number and Operation Concepts	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		PBS Teacher Source: http://www.pbs.org/teachersource/math.htm?default The Canadian Math Page: Word problems. Each has a "hint" that can be clicked to, as well as the answer and how it was reached. http://www.stfx.ca/special/mathproblems/welcome.html AMOF: The Amazing Mathematical Object Factory: http://www.schoolnet.ca/vp-pv/ECOS/index.html
M1a Consistently and accurately add, subtract, multiply, and divide rational numbers.	Use rational numbers to create a monthly budget and calculate the percent of the budget that each item represents.	Enter all budget data on a spreadsheet and create formulas to complete all calculations.	T10. Create products T12. Use and create spreadsheets	AppleWorks-ClarisWorks MS Office The Cruncher	Web Math: Focuses on a wide variety of real-world math problems offering tips, examples, tools and more http://www.webmath.com/
M1b Use and understand the inverse relationships between addition and subtraction, multiplication and	Create a table of squares and square roots.	Use formulas on a spreadsheet to create a square and square root table.	T10. Create products T12. Use and create spreadsheets	AppleWorks-ClarisWorks MS Office	Square Roots without a Calculator http://forum.swarthmore.edu/dr.math/faq/faq.sqrt.by.hand.html

Mathematics Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
division, and exponentiation and root-extraction.					
M1C Apply and convert the different kinds and forms of rational numbers.	Make a table that converts fractions to decimals to percents.	Use a spreadsheet to create the table and depict each fraction using pie graphs.	T10. Create products T12. Use and create spreadsheets	AppleWorks-ClarisWorks MS Office The Cruncher	
M1d Be familiar with characteristics of numbers.	Use factor trees to find the prime factors of a number.	Use a software program to create factor trees and list the prime factorization of a number.	T10. Create products	Inspiration AppleWorks-ClarisWorks	Understanding Factoring http://mathforum.com/dr.math/faq/faq.learn.factor.html
M1e Interpret percent as part of 100.	Use 100 boxes on a sheet of graph paper to represent a percent as part of 100.	Draw shapes that can represent percent as part of 100.	T12. Use and create spreadsheets	AppleWorks-ClarisWorks MS Office The Cruncher	
M1f Use ratios and rates to express relationships.	Solve problems to find equivalent ratios (e.g., if oranges are 5 for 99 cents, how much will 25 oranges cost at the same rate?)	Add formulas to a spreadsheet to find equivelant ratios.	T10. Create products T12. Use and create spreadsheets	AppleWorks-ClarisWorks MS Office The Cruncher	
M1g Order numbers with using “greater than” and “less than” symbols (> and <). Estimate and	Create a number line to plot temperatures above and below zero in different cities in	Construct a number line using drawing software.	T10. Create products	AppleWorks-ClarisWorks	Weather Finder http://www.accuweather.com/weatherf/index_corp

Mathematics Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
compare rational numbers using sense of the magnitudes and relative magnitudes of numbers.	the country.				Precipitation Area Maps http://www.ems.psu.edu/wx/usstats/uswxstats.html
M2 Geometry and Measurement Concepts	Students will:	Students will:	Students will:		PBS Teacher Source http://www.pbs.org/teachersource/math/middle_geometry.shtm
M2a Be familiar with assorted two- and three-dimensional objects.	Classify different two- and three-dimensional objects by sides, angles, and surfaces.	Create a database of shapes that lists a different property (e.g., number of sides, degree of angles) within each field.	T10. Create products T11. Use and create databases	AppleWorks-ClarisWorks MS Office FileMaker Mighty Math Cosmic Geometry	
M2b Identify similar and congruent shapes and use transformations in the coordinate plane.	Use graph paper to create transformations in a coordinate plane.	Recreate the transformations using computer software.	T10. Create products	The Geometer's Sketchpad AppleWorks-ClarisWorks	Download a demo of The Geometer's Sketchpad http://www.keypress.com/catalog/products/software/Prod_GSP.html#Anchor-The-49575 Matrix/Spreadsheet/Transformation Lesson http://silvercrest.silverfalls.k12.or.us/scdocs/staff/lou/matst.htm
M2c Identify three-dimensional shapes from two-dimensional perspectives.	Use graph paper to create a two-dimensional perspective of a	Use drawing software to shjow several two-dimensional views of the same three-	T10. Create products	The Geometer's Sketchpad AppleWorks-	Drawing in One-Point Perspective http://www.olejarz.com/arted/perspective/index.html

Mathematics Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
Draw two-dimensional sketches of three-dimensional objects.	three-dimensional solid.	dimensional object.		ClarisWorks Mighty Math Number Heroes	
M2d Determines and understands length, area, and volume.	Find the area and perimeter of a rectangle, square, triangle and circle	Use a spreadsheet to create formulas for area and perimeter for each figure. Describe the relationship if you double one or more of the dimensions	T9. Use word processing T10. Create products T12. Use and create spreadsheet	The Geometer's Sketchpad AppleWorks-ClarisWorks MS Office The Cruncher	Math Lesson Plans http://www.iit.edu/~smile/mathinde.html
M2e Recognize similarity and rotational and bilateral symmetry in two- and three-dimensional figures.	Use graph paper to create a logo for a business using a symmetrical design	Recreate the logo using computer software.	T10. Create products T14. Select appropriate technologies for a specific situation	The Geometer's Sketchpad AppleWorks-ClarisWorks	Eye on Art Art appreciation online http://www.kn.pacbell.com/wired/art2/index.html Create a kaleidoscope http://www.nsa.gov/programs/mepp/ms/geom01.html
M2f Analyzes and generalizes geometric patterns.	Use graph paper to create "Escher" type drawings using polygons	Recreate these drawings using paint or draw programs	T10. create products	AppleWorks-ClarisWorks	Make Your Own Tesselations: http://www.iproject.com/escher/teaching/maketessel.html Tesselations Creations (an abstract) http://www.imsa.edu/team/spi/impact2/1990/90PAGE14.HTM
M2g Measures angles,	Create a pie chart	Display the data on a	T10. create	AppleWorks-	This provides a summary of

Mathematics Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
weights, capacities, times, and temperatures using appropriate units.	from given data using a compass and a protractor	spreadsheet and create a pie chart. Print the chart and measure the central angles using a protractor	products T12. use and create spreadsheets.	ClarisWorks Excel	most of the units of measurement to be found in use around the world today. http://www.ex.ac.uk/cimt/dictunit/dictunit.htm Integrates art and geometry by introducing the creation of patterns produced using a compass. Also introduces the properties of circles, arcs, tangets and bisectors. Includes graphic examples of circle designs illustrating those drawn with constant ratios. http://explorer.scrtec.org/explorer/explorer-db/html/823932058-81ED7D4C.html
M2h Chooses appropriate units of measure and converts with ease between like units.	Create a conversion table between Celsius and Fahrenheit temperatures (or centimeters to inches, grams to ounces, and etc.)	Use spreadsheets to create conversion formulas	T10. create products T12. use and create spreadsheets.	AppleWorks-ClarisWorks Excel	Celsius to Fahrenheit http://mcgees.com/kitchen/temperat.htm METRIC TO U.S. CONVERSIONS http://mcgees.com/kitchen/metric.htm This game will reinforce U.S. measurement conversions http://www.quia.com/jg/36.html
M2i Reasons proportionally in	Use graph paper to make a scale drawing	Recreate the scale drawing using	T10. create products	AppleWorks-ClarisWorks	teacher lesson ideas Abstracts of grant winning

Mathematics Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
situations with similar figures.	of any room in your home including furnishings	computer software		Geometer's Sketchpad Excel	Learning Experiences http://www.imsa.edu/team/spi/impact2/1994/94PAGE1.HTM Powerful Proportions Day (lesson idea) http://www.imsa.edu/team/spi/impact2/1994/94PAGE5.HTM
M2j Reasons proportionally with measurements.	See M2i	See M2i	See M2i	See M2i	This game will reinforce customary measurements http://www.quia.com/jg/354.html
M2k Models situations geometrically to formulate and solve problems.	See M2i	See M2i	See M2i	See M2i	Design the ultimate Container(teacher lesson idea) http://www.imsa.edu/team/spi/impact2/1997/97PAGE2.HTM
M3 Function and Algebra Concepts	Students will:	Students will:	Students will:		PBS Teacher Source: http://www.pbs.org/teachersource/math.htm?default A+ Math: interactive flashcards, games, a homework helper and help on advanced math problems. http://www.aplusmath.com Math Goodies: Offers math lessons and resources designed to meet NCTM Standards for TeachingMath

Mathematics Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
					http://www.mathgoodies.com
M3a Discovers, describes, and generalizes patterns, and represents them with variables and expressions.	Use graph paper to create an x/y table and graph the function n^2 or $A = \prod r^2$	Use computer software or spreadsheet to graph the functions.	T7.use age-appropriate digital resources T10.Create products T12. use and create spreadsheets.	Geometer's Sketchpad Graphing Calculator (Mac) AppleWorks-ClarisWorks Excel	For a trial version of Geometer's Sketchpad http://www.keypress.com/catalog/products/software/Prod_GSP.html Pre-algebra graphing http://library.thinkquest.org/20991/prealg/graph.html
M3b Represents relationships.	Graph paper to examine areas of rectangles that can be enclosed by 24 feet of fencing and figure out the maximum area.	Use spreadsheet, computer or drawing software to examine areas that can be enclosed by 24 feet of fencing and figure out the maximum area.	T7. Use age-appropriate digital software T10.create products T12.use and create spreadsheets.	Geometer's Sketchpad AppleWorks-ClarisWorks Excel	Geometry and Geometer's Sketchpad Web Sites http://curry.edschool.virginia.edu/teacherlink/math/links/geometry.html
M3c Analyzes tables to determine functional relationships.	Write an equation from a given table (find the rule)	Enter data on a spreadsheet and create the appropriate formula	T10.create products T12.use and create spreadsheets.	AppleWorks-ClarisWorks Excel	Math Forum, math resources by subject http://forum.swarthmore.edu/math.topics.html
M3d Finds solutions for unknown quantities in linear equations.	Will solve word problems using linear equations	Use the graphing function of the spreadsheet or computer software to solve linear equations	T7. Use age-appropriate digital software T10.create products T12.use and create spreadsheets	Geometer's Sketchpad AppleWorks-ClarisWorks Excel	Geometry and Geometer's Sketchpad Web Sites http://curry.edschool.virginia.edu/teacherlink/math/links/geometry.html
M4 Statistics and Probability Concepts	Students will:	Students will:	Students will:		PBS Teacher Source: http://www.pbs.org/teachersource/math.htm?default

Mathematics Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
					The Dance of Chance: provides examples of naturally occurring fractals and Patterns http://polymer.bu.edu/museum/ The following is a collection of almost 200 single concept lessons. These lessons may be freely copied and used in a classroom but they remain the copyright property of the author. http://www.iit.edu/~smile/mathinde.html Descriptive Statistics Introduction: An interactive introduction to mode, median, mean, range, variation, and standard deviation http://www.mste.uiuc.edu/hill/dstat/dstat.html
M4a Organizes and displays data.	Create a table and graph from student test scores / stock data	Use spreadsheets to graph the data collected	T10.create products T12.use and create spreadsheets	AppleWorks-ClarisWorks Excel	Investing for Kids: This Web site is designed by kids for kids. It examines stocks, bonds, mutual funds and the like. It teaches the principles of saving and investing. It also includes a stock game. http://tqd.advanced.org/3096/index.htm
M4b Analyzes data with respect to frequency and	Use class test scores / data about the planets	Find the mode and range from the	T10.create products	AppleWorks-ClarisWorks	This lesson teaches students to identify a range; recognize the

Mathematics Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
distribution.	in our Solar System to find the mode and range	spreadsheet table	T12.use and create spreadsheets	Excel	score that occurs most frequently in a distribution; locate the middle point in a distribution; and find the average of a given set of numbers. http://www.iit.edu/~smile/ma9017.html The Nine Planets is an overview of the history, mythology, and current scientific knowledge of each of the planets and moons in our solar system. http://www.seds.org/billa/tnp/
M4c Analyzes central tendencies of data.	Use class test scores /planet data / stock data to find the mean and median.	Use spreadsheet mean and median functions	T10.create products 12.use and create spreadsheets	AppleWorks-ClarisWorks Excel	Descriptive Statistics Introduction: An interactive introduction to mode, median, mean, range, variation, and standard deviation http://www.mste.uiuc.edu/hill/dstat/dstat.html (see above sites for data)
M4d Makes conclusions and recommendations based on data analysis.	Analyze the student test score data and graph and write a conclusion about the statistics	Use word-processing software to compose their conclusions	T9.use word processing T10.create products T12.use and create spreadsheets	AppleWorks-ClarisWorks Word	The cost of living utility converts dollar values, adjusting for inflation. Find the buying power of dollar amounts dating back to 1957 http://www.newsengin.com/NewsEngin.nsf/JumpOffPoints/Free+Tools

Mathematics Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
M4e Critiques the conclusions and recommendations of others' statistics.	Analyze a graph of data from a news article and write a letter to the editor based on the findings.	Use word processing software to compose letter	T9.use word processing T10.create products	AppleWorks-ClarisWorks Word	Newspapers from around the world on line. http://www.pscw.uva.nl/sociosite/Newspapers.html
M4f Considers the effects of missing or incorrect information.	Consider different scenarios for 5 students who take a make- up exam i.e. All receive 100 on exam etc.("what if") Stock data also	Use spreadsheets to analyze the additions to the data	T9.use word processing T10.create products T12.use and create spreadsheets	Word AppleWorks-ClarisWorks Excel	The Data Library contains lists of ongoing data-sharing projects as well asdownloadable Clarisworks spreadsheets and other sources of data on the web. http://mathforum.com/workshops/sum96/data.collections/datalibrary/
M4g Formulates hypotheses to answer a question and uses data to test hypotheses.	Hypothesize which area is the warmest in the USA or World. They will exam data for at least 10 area.	Gather data from the internet. They will organize and analyze the data to test their hypotheses	T7.use age-appropriate digital resources T9.use word processing T10.create products T12.use and create spreadsheets T13.use the Internet	Internet AppleWorks-ClarisWorks Excel Word	National weather service for United States http://www.wrh.noaa.gov/wrhq/nwspage.html Daily Global weather http://weather.yahoo.com/graphics/temperature/US_Hi.html Weather labs - Global http://weatherlabs.com/index.html
M4h Represents and determines probability; recognizes equally likely outcomes, and constructs sample spaces.	Create a tree diagram showing the sample space for their school cafeteria menu. There are four different	Use computer software to create tree diagrams	T10.create products T14.select appropriate technologies for	Inspiration AppleWorks-ClarisWorks	Download a 30 day free trial copy of Inspiration http://inspiration.com/betaform.html

Mathematics Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
	sandwiches served on three kinds of bread		specific situation		Plan an inspiration diagram. http://inspiration.com/diagrams/ed/teacher.html
M4i Makes predictions based on experimental or theoretical probabilities.	Survey the class' favorite colors, graph the results, and determine the probability that any particular student likes a particular color. Assume that there are ten times as many students in the class, and determine the probability of favorite colors.	Recreate the survey results and graph using a spreadsheet.	T10.create products T12.use and create spreadsheets	AppleWorks-ClarisWorks Excel	Format for a color survey http://www.girltech.com/Game_Cafe/GC_menu_frame.html
M4j Predicts the result of a series of trials once the probability for one trial is known.	Research weather reports to determine the probability of a major snowstorm occurring in Buffalo, NY and predict when the next major storm will occur.	Use the internet to conduct this research	T7.use appropriate digital devices T9.use word processing T10.create products T13.use internet	Internet AppleWorks-ClarisWorks Word	National weather service for United States http://www.wrh.noaa.gov/wrhq/nwspage.html Daily Global weather http://weather.yahoo.com/graphics/temperature/US_Hi.html

Mathematics Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
M5 Problem Solving and Reasoning	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		PBS Teacher Source: http://www.pbs.org/teachersource/math. htm?default Math Baseball: play a little math baseball and test your math problem solving ability http://www.funbrain.com/math Ask Dr. Math: questions and answers covering all areas of mathematics. Students can also e-mail their own questions to Dr. Math. http://forum.swarthmore.edu/dr.math/drmath.middle.html
M5a Formulation: The student participates in the formulation of problems.	Solve the following problem: A family of four takes a trip New York Aquarium. They have $200 to spend for the day on all aspects of the trip, tickets, tolls, programs, food and souvenirs. How can they spend the maximum amount	Research on the internet the types and costs of different items needed for trip	T9.use word processing T10.create products T13.use internet	Internet AppleWorks-ClarisWorks Word	New York Aquarium and other sites http://wcs.org/home/zoos/nyaquarium

Mathematics Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
	but not more than $200?				
M5b Implementation: The student makes the basic choices involved in planning and carrying out a solution.	See M5a. Create a table listing each item and its cost and calculate the total cost of food for a family of four.	Create a spreadsheet listing each item and its cost. Use formulas to compute the individual item cost and the total, $200 or less.	T10.create products T12.use and create spreadsheets	AppleWorks-ClarisWorks Excel	Visit Pathmark and choose from their sales and coupons. http://pathmark.com/ Go to Costco http://www.costco.com/
M5c Conclusion: The student provides closure to the solution process through summary statements and general conclusions.	See M5a. Examine the data from part M5b and determine the changes necessary if more soda and ice cream must be consumed on an extremely warm day.	Using the spreadsheet examine the data from part M5b and determine the changes necessary if more soda and ice cream must be consumed on an extremely warm day.	T9.use word processing T10.create products T12.use and create spreadsheets	AppleWorks-ClarisWorks Excel Word	
M5d Mathematical Reasoning: The student demonstrates mathematical reasoning by generalizing patterns, making conjectures and explaining why they seem true, and by making sensible, justifiable statements.	See M5a. Determine what amount of money is realistic for this trip to the Aquarium	Determine through use of the data in the spreadsheet what amount of money is realistic for this trip to the Aquarium	T9.use word processing T10.create products T12.use and create spreadsheets	AppleWorks-ClarisWorks Excel Word	Take a trip using Amtrak in California http://www.quickaid.com/~qrail/
M6 Mathematical Skills and Tools	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		PBS Teacher Source: http://www.pbs.org/teachersource/math.htm?default The Math Journal: offers tips,

Mathematics Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
					lesson plans for interactive projects, and also includes advice from educators around the globe. http://www:mathprojects.com Explorer: Good math resource search engine, includes mathmatical tools http://explorer.scrtec.org/explorer/ A Walk Through Time: The evolution of time measurement http://physics.nist.gov/GenInt/Time/time.html Convert It! An interactive measurement conversion table. http://microimg.com/science/ English-Metric Converter: Converts area, distance, mass, temperature and volume from English-metric to US standards, also in Japanese. http://fuji.stanford.edu/converter/step1.html
M6a Computes	Not applicable				

Mathematics Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
accurately with arithmetic operations on rational numbers.					
M6b Knows and uses the correct order of operations for arithmetic computations.	Solve "order of operations" problems containing parenthesis and squares.	Use spreadsheet formulas to solve "order of operations" problems	T10.create products T12.use and create spreadsheets	AppleWorks-ClarisWorks Excel	Using arithmetic, logical, and bitwise shift operators and parenthesis, build an arithmetic expression with as many Base digits as specified in the Number of occurrences. http://www.cut-the-knot.com/arithmetic/funny/count.html
M6c Estimates numerically.	Examine a book store or a supermarket bill and estimate the total cost.	Use spreadsheets to check their work	T10.create products T12.use and create spreadsheets	AppleWorks-ClarisWorks Excel	Visit Pathmark and choose from their sales and coupons. http://pathmark.com/ Book store on line http://www.amazon.com
M6d Measures accurately.	Use rulers, protractors and compasses to draw geometric figures	Use computer software to draw polygons; print drawings and measure the accuracy.	T10.create products T14.select appropriate technologies for a specific situation	Geometer's Sketchpad AppleWorks-ClarisWorks	The Compass in Art – integrates art and geometry using a compass. http://explorer.scrtec.org/explorer/explorer-db/html/823932058-81ED7D4C.html
M6e Refers to geometric shapes and terms correctly.	Classify different geometric figures by side and angle	Create a data base listing within each field a different property. They can sort by property to classify the figure	T10. create products T11. use and create databases	AppleWorks-ClarisWorks MS Access	Defining Polygons http://mathforum.com/dr.math/faq/formulas/faq.figuredef.html
M6f Use equations,	Measure the base and	Create different	T10.create	Geometer's Sketchpad	Formulas for Area, perimeter,

Mathematics Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
formulas, and simple algebraic notation appropriately.	height of different triangles with a ruler and use the formula A = _ bh to find the area	triangles using computer software and find the area using computer generated measurements	products T14.select appropriate technologies for a specific situation	AppleWorks-ClarisWorks	etc http://mathforum.com/dr.math/faq/formulas/
M6g Reads and organizes data on charts and graphs.	Take a class survey of their favorite TV shows; create a table; and construct a bar graph	Use a spreadsheet to organize and graph the data	T10.create products T12.use and create spreadsheets	AppleWorks-ClarisWorks Excel	
M6h Uses calculators and computers, as appropriate, to achieve solutions.	See any of the examples listed above	See any of the examples listed above			Texas Instruments: Graphing calculators in math & science http://www.ti.com/calc
M7 Mathematical Communication	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		
M7a Uses mathematical language and representations with appropriate accuracy.	(the following is used from M7a through M7e) Form cooperative groups to investigate the value of ∏ using the formula ∏ = circumference /diameter	(the following is used from M7a through M7e)	(the following is used from M7a through M7e) T7.use age-appropriate digital resources T8.use related peripheral devices	(the following is used from M7a through M7e) Geometer's Sketchpad AppleWorks-ClarisWorks HyperStudio MS Office	Circle formulas http://mathforum.com/dr.math/faq/formulas/faq.circle.html
M7b Organizes work, explains facets of a	Use string, compasses and rulers	Use computer software to create different size			Math Goodies is a free educational web site featuring

Mathematics Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
solution orally and in writing, labels drawings, and uses other techniques to make meaning clear to the audience.	to measure the circumference and diameter of different size circles.	circles and measure the circumference and diameter of each.			interactive math lessons, homework help, worksheets etc http://www.mathgoodies.com/
M7c Uses mathematical language to make complex situations easier to understand.	Record their results in tabular form and use the formula to compute the value of ∏.	Use a spreadsheet to record their results including the appropriate formula			why pi works in solving problems http://explorer.scrtec.org/explorer/explorer-db/html/783750035-447DED81.html
M7d Exhibits developing reasoning abilities by justifying statements and defending work.	Create a narrative procedure to explain the process.	Create an digital presentation of the process			
M7e Shows understanding of concepts by explaining ideas to others.	Make an oral presentation to the class.	Make an oral presentation to the class using multimedia software			
M7f Comprehends mathematics from reading assignments and other sources	Not applicable				
M8 Putting Math to Work	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		Lemonade Stand: Players must run a virtual Lemonade Stand http://www.littlejason.com/lemonade/index.html Investing for Kids: This Web site is designed by kids for kids. It examines stocks,

Mathematics Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
					bonds, mutual funds and the like. It teaches the principles of saving and investing. It also includes a stock game. http://tqd.advanced.org/3096/index.htm AskEric: Mathematics: lots of sample problems that apply to real world situations like budgeting, shopping, and savings http://ericir.syr.edu/Virtual/Lessons/Mathematics/index.html Web Math: Focuses on a wide variety of real-world math problems offering tips, examples, tools and more http://www.webmath.com/
M8a Data study	Survey two classes on each grade gathering data to determine if middle school students of the same grade level and/or sex have the same favorite singer or singing group?	Use word processing to compose survey. Use spreadsheet to tabulate the results of survey Use internet resources to compare school statistics with general	T7.use age-appropriate digital resources T8.use related peripheral devices T9.use word processing T10.create products T12.use and create	Geometer's Sketchpad AppleWorks-ClarisWorks HyperStudio The Cruncher MS Office	

Mathematics Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
		population statistics Create multimedia presentations to present findings	Spreadsheets T13.use internet T14.select appropriate technologies for a specific situation		
M8b Mathematical model	Compare the growth of a set of plants under a variety of conditions (e.g., amount of water, fertilizer, duration and exposure to sunlight). create a table of data and graph the results.	Use spreadsheets to tabulate and graph results Create multimedia presentations to present findings	T7.use age-appropriate digital resources T8.use related peripheral devices T9.use word processing T10.create products T12.use and create spreadsheets T13.use internet T14.select appropriate technologies for a specific situation	AppleWorks-ClarisWorks HyperStudio MS Office	
M8c Design of a physical structure.	Choose an historical landmark building in their neighborhood. Take pictures of the structure. Construct a scale drawing	Use digital camera to photograph the building Use CAD or drawing software to create a scale drawing of the building Use the Internet to research the landmark	T7.use age-appropriate digital resources T8.use related peripheral devices T9.use word processing T10.create products T12.use and create	AppleWorks-ClarisWorks HyperStudio MS Office Community Construction Kit	Buid It & Bust It http://library.thinkquest.org/11686 Lego Models http://library.thinkquest.org/20551/ Math-Kitecture Design a floor plan using CAD

Mathematics Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
	Use cardboard, balsa wood or Popsicle sticks to construct a replica of the building Write a brief history of the structure	building Create multimedia presentations	spreadsheets T13.use internet T14.select appropriate technologies for a specific situation		software. http://www.math-kitecture.org
M8d Management and planning project.	Determine if a Web-based trading card business is more profitable than a local store front business Form cooperative groups to research: financing, inventory purchases, taxes expenses, etc	Use the following digital resources to complete the project: Internet, word processing, spreadsheets and databases. Create multimedia presentations	T7.use age-appropriate digital resources T8.use related peripheral devices T9.use word processing T10.create products T12.use and create spreadsheets T13.use internet T14.select appropriate technologies for a specific situation	Internet AppleWorks-ClarisWorks HyperStudio MS Office	
M8e Pure mathematics investigation.	Discover the relationships and properties of Fibonacci Numbers emphasizing their relationship with nature	Use the following digital resources to complete the project: Internet, word processing, spreadsheets and databases.	T7.use age-appropriate digital resources T8.use related peripheral devices T9.use word processing T10.create	Internet AppleWorks-ClarisWorks HyperStudio MS Office	The Fibonacci Series http://library.thinkquest.org/27890/splash.html

Mathematics Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web Sites**
		Create multimedia presentations	products T12.use and create spreadsheets T13.use internet T14.select appropriate technologies for a specific situation		

Science
Early Childhood

Science Early Childhood					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
S1 – Physical Science Concepts	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		
Primary Focus S1a - Demonstrates understanding of properties of objects and materials. Related Science Standards · S6 a · S6 c · S7 a	Identify similarities and differences in the size, weight, and color of objects. Sort collections of objects and materials into two or more categories.	Enter data in a teacher created database or spreadsheet. Convert data to a graph to show comparisons of properties. Use KidPix Studio stamps to make different sizes of the same graphic. Create Venn Diagrams to sort categories. Use the Internet as a resource.	T7. use age-appropriate resources. T10. create products. T11. Use and create databases. T12. use and create spreadsheets. T13. use the Internet.	KidPix Studio AppleWorks-ClarisWorks MS Excel FileMaker Pro DK Eyewitness Children's Encyclopedia A Whale of a Tale Surf into Science	Exploratorium http://www.exploratorium.edu/ Explorer http://explorer.scrtec.org/explorer/ The Lighspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/
Primary Focus S1b- Demonstrates an understanding of position and motion of objects.	Show how the motion of an object can be described by tracing and measuring its position over time.	Use a digital camera and a timeline to show the growth of a plant over a period of time. Use a drawing program	T7. use age-appropriate resources. T8. use related peripheral devices.	Tom Snyder's Timeliner KidPix Studio AppleWorks-ClarisWorks	Exploratorium http://www.exploratorium.edu/ Science Museum of Minnesota http://www.sci.mus.mn.us/

Science Early Childhood					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
Additional Science Standards Met · S6 c · S7 a · S7 c	Observe the changing position of the sun. Observe how a push or pull changes the position of an object. Observe changing shadows. Show how sound is produced by vibrating objects.	to create graphics to illustrate observed changes. Create a multimedia presentation. Manipulate text in word processing program using shadow effects. Use the Internet as a resource.	T9. use word processing. T10. create products. T13. use the Internet.	MS Word DK Eyewitness Children's Encyclopedia A Whale of a Tale Surf into Science	The Lighspan Network http://www.lightspan.com Astronomy with a Stick http://www.nsta.org
S1c—Demonstrates understanding of light, heat, electricity, and magnetism. Additional Science Standards Met · S6 c · S7 a · S7 c	Explain similarities and differences of heat and friction by burning or rubbing or mixing substances together. Use knowledge of magnetism to predict what materials will be attracted, repelled or unaffected by a magnet.	Use word processing and/or create Venn diagrams to illustrate similarities and differences. Use word processing for predictions. Create Venn Diagrams to illustrate results of magnet studies. Create graphic organizers to brainstorm and predict results. Use the Internet as a resource.	T7. use age-appropriate resources. T9. use word processing. T10. create products. T13. use the Internet.	KidPix Studio AppleWorks-ClarisWorks MS Excel Inspiration DK Eyewitness Children's Encyclopedia A Whale of a Tale Surf into Science	Magnet Fun http://www.eecs.umich.edu/~coalitn/sciedoutreach/funexperiments/quickndirty/magnetfun.html The Lighspan Network http://www.lightspan.com

Science Early Childhood					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
S2 – Life Science Concepts:	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		
Primary Focus S2 a Demonstrates understanding of characteristics of organisms. Additional Science Standards Met · S6 a · S6 c · S7 a	Examine life cycles of plants and animals. Plan the supplies and equipment needed for a camping trip and explain their purposes. Explain how humans cause changes in the environment. Study about recycling inititatives. Research endangered species.	Create a multimedia presentation to illustrate life cycles of animals and plants. Use graphic organizers to chart life cycles. Use word processing to keep a journal. Make a map of camp grounds and trails. Use the Internet as a resource.	T7. use age-appropriate resources. T9. use word processing. T10. create products. T13. use the Internet.	KidPix Studio AppleWorks-ClarisWorks DK Eyewitness Children's Encyclopedia Sammy's Science House Berenstain Bears:Time to Clean Up, Pick Up, and Recycle A Whale of a Tale Surf into Science	BioPoint http://www.fi.edu/qa97/biology/ Microbe World http://www.microbeworld.org/mlc/ Gorillas Online http://www.selu.com/bio/gorilla/ Zoom Dinosaurs http://www.enchantedlearning.com/ subjects/dinosaurs/index.html Body Changers http://www.pbs.org/wnet/nature/bodychangers/multimedia/changers-game.html Waterford Press Games http://www.waterfordpress.com/game1.html The Lighspan Network http://www.lightspan.com Endangered Species http://www.esc8.net

Science Early Childhood					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
					Litter Prevention http://www.dep.state.pa.us
Primary Focus S2 b- Demonstrates understanding of life cycles of organisms Additional Science Standards Met · S6 a · S6 c · S7 a	Make drawings of observations showing the life cycle of plant or animal. Write a report and/or presentation explaining the growth and development of animal.	Use KidPix Studio to illustrate observations. Use word processing to write a report. Use presentation software to create a multimedia journal of animal growth. Use the Internet as a resource.	T7. use age-appropriate resources. T9. use word processing. T10. create products. T13. use the Internet.	KidPix Studio AppleWorks-ClarisWorks DK Eyewitness Children's Encyclopedia Sammy's Science House MS Word	The Lighspan Network http://www.lightspan.com

Science Early Childhood					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
Primary Focus S2c – Demonstrates understanding of organisms and environments. S2d – Demonstrates understanding of change over time. Additional Science Standards Met · S6 a · S6 c · S7 a	List and describe Earth's biomes. Describe the similarities and differences between fossils and related contemporary organisms.	Visit the Museum of Natural History. Use the Internet as a resource. Use Venn diagrams that show characteristics of organisms. Create a multimedia illustration of organisms and their environments.	T7. use age-appropriate resources. T9. use word processing. T10. create products. T13. use the Internet.	KidPix Studio AppleWorks-ClarisWorks Sammy's Science House DK Eyewitness Children's Encyclopedia A Whale of a Tale Surf into Science	Museum of Natural History http://www.amnh.org Face to Fossil http://www.amnh.org/paleaontology/index.html Waterford Press Games http://www.waterfordpress.com/game1.html The Lighspan Network http://www.lightspan.com
S3 – Earth and Space Science Concepts	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		
Primary Focus S3a -- Demonstrates understanding of properties of Earth materials. Additional Science Standards Met · S5 a · S5 e · S6 a	Identifies properties of earth such as water, gases, rocks, and soils by texture, color, and ability to retain water. Sort rocks and soil samples into two or more categories. Tests the effects of different soil samples on plant growth.	Use word processing to keep a journal. Use graphic organizers. Record data in a chart or teacher created spreadsheet or database Use the Internet as a resource.	T7. use age-appropriate resources. T9. use word processing. T10. create products. T11. use and create databases. T12. use and create	AppleWorks-ClarisWorks MS Excel DK Eyewitness Children's Encyclopedia Sammy's Science House Berenstain Bears:Time to Clean Up, Pick Up,	National Geographic www.nationalgeographic.com The Cyber Zoo Mobile http://www.primenet.com/~brendel/ Scientists in the City http://sln.fi.edu/city/city.html The Lighspan Network http://www.lightspan.com

Science Early Childhood					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
· S6 b · S6 c · S7 a	Write a story that describes what happens to a drop of water. Study about recycling inititatives.		spreadsheets T13. use the Internet.	and Recycle Inspiration A Whale of a Tale Surf into Science	KinderGARDEN http://aggie-horticulture.tamu.edu/kindergarden/ kinder.htm Cool Science for Curious Kids http://www.hhmi.org/coolscience/ Waterford Press Games http://www.waterfordpress.com/game1.html EPA Explorers Club http://www.epa.gov/kids/ American Museum of Natural History http://www.amnh.org/ The Lighspan Network http://www.lightspan.com Litter Prevention http://www.dep.state.pa.us/dep/deputate/airwaste/wm/litter/litter.htm
Primary Focus S3b- Demonstrates understanding of objects in the sky.	Identifies objects in the sky such as: Sun, Moon, planets, and other objects that can be observed and	Draw a model of the solar system. Keep a written and visual journal of the	T7. use age-appropriate resources. T9. use word	KidPix Studio DK Eyewitness Children's Encyclopedia Sammy's Science House	Eyes on the Sky Feet on the Ground http://hea-www.harvard.edu/ECT/the_book/index.html

Science Early Childhood					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
S3c- Demonstrates understanding of changes in the Earth and sky. Additional Science Standards Met · S6 b · S6 c · S7 a	described. Identifies the importance of the Sun to provide the light and heat. Observe and record the changing shape and position of the moon. Observe characteristics of seasons to determine change in the weather.	Moon's cycle over a month. Use graphic organizer and/or draw program to illustrate proper clothing for changing seasons. Use word processing to keep a journal of the morning messages. Use the Internet as a resource.	processing. T10. create products. T13. use the Internet.	AppleWorks-ClarisWorks MS Word Inspiration A Whale of a Tale Surf into Science	Izzy's Skylog http://darkstar.swsc.k12.ar.us/~izzy/index.html Welcome to Knowble http://www.knowble.com The k-8 Aeronautics Internet Textbook http://wings.ucdavis.edu/ Windows to the Universe http://www.windows.umich.edu/ Waterford Press Games http://www.waterfordpress.com/game1.html The Weather Channel www.weather.com/education NASA www.nasa.gov How the Weather Works http://www.weatherworks.com/ The Lighspan Network http://www.lightspan.com
S4 – Scientific Connections and	Students will:	Students will:	Students will: (T1-T6 are implied		

Science Early Childhood					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
Applications			throughout the listed activities).		
Primary Focus S4.a Demonstrates an understanding of big ideas and unifying concepts: (such as order and organization; models, form and function; change and constancy; and cause and effect.) Additional Science Standards Met · S7	Sort and classify animal species by herbivore, carnivore, and omnivore. Choose appropriate food pictures for the animals. Make mask models of different types of animal teeth (pointed flat, sharp, etc.) and describe functions of the teeth.	Create a factual or fictional animal story using word processing software and/or multimedia presentation software. Use graphic organizers to illustrate food pictures for the animals. Use Venn diagrams to contrast and compare. Use the Internet as a resource.	T7. use age-appropriate resources. T9. use word processing. T10. create products. T13. use the Internet.	AppleWorks-ClarisWorks DK Eyewitness Children's Encyclopedia Inspiration A Whale of a Tale Surf into Science MS Word KidPix Studio	Seeds of Change Garden http://www.nmnh.si.edu/garden/seasons/ Corn in the Classroom http://www.ontariocorn.org/classroo.html Get Real http://www.wpt.org/getreal!/front.htm Waterford Press Games http://www.waterfordpress.com/game1.html The Lighspan Network http://www.lightspan.com
Primary Focus S4 b Demonstrates understanding of the designed world. Secondary Focus · S6 c · S7 a	Use "The Three Little Pigs" as a catalyst for designing different structures. Build structures using different materials.	Create a model in a drawing program using basic geometric shapes. Use the Internet as a resource.	T7. use age-appropriate resources. T10. create products. T13. use the Internet.	KidPix Studio DK Eyewitness Children's Encyclopedia Fun with Architecture	Science Museum of Minnesota http://www.sci.mus.mn.us/sln/tf/s/strongshapes/strongshapes.html Architecture Home Model http://communitydisc.wst.esu3.k12.ne.us/CGI/TAF/cdunitplan.taf?function=detail&Layout_0_uid1=62

Science Early Childhood					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
					How Stuff Works http://www.howstuffworks.com/ The Lighspan Network http://www.lightspan.com
Primary Focus S4c- Demonstrates understanding of personal health, such as nutrition, substance abuse, and exercise; germs and toxic substances; personal and environmental safety. Additional Science Standards Met · S6 c	Investigate the need and importance of proper personal hygiene. Create a food pyramid. Have children bring healthy snacks to school. Create a journal of foods eaten over a week's time.	Use a timeline to illustrate a daily hygiene routine. Use graphic organizers to illustrate food categories. Use word processing software to keep a food journal. Create a spreadsheet that lists healthy snacks. Create a database or spreadsheet that lists food eaten. Use the Internet as a resource.	T7. use age-appropriate resources. T9. use word processing. T10. create products. T11. use and create databases. T12. use and create spreadsheets. T13. use the Internet.	Tom Snyder's Timeliner DK Eyewitness Children's Encyclopedia Inspiration AppleWorks-ClarisWorks MS Word MS Excel MS Access FileMaker Pro	KidSource Online http://www.kidsource.com/ Dole 5 A Day http://www.dole5aday.com/ TheYuckiest Site on the Internet http://www.yucky.com/ A healthy Body Makes Sense http://www.coreknowledge.org/CKproto2/resrcs/lessons/K98MusicParade.htm Benny Goodsport http://www.bennygoodsport.com/ Kids Health http://www.kidshealth.org/index2.html The Lighspan Network http://www.lightspan.com
Primary Focus S4d-	Interview community helpers such as	Use word processing software to write a	T7. use age-appropriate	AppleWorks-ClarisWorks	Science Heroes http://www.myhero.com/science/

Science Early Childhood					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
Demonstrates understanding of science as a human endeavor. Additional Science Standards Met · S6 c	firefighters and police officers. Write a biography of a scientist.	report. Use a digital camera to photograph community helpers. Create multimedia presentations of interviews. Use the Internet as a resource.	resources. T8. use related peripheral devices. T9. use word processing. T10. create products. T13. use the Internet.	DK Eyewitness Children's Encyclopedia MS Word KidPix Studio Community Construction Kit by Tom Snyder	science_content.asp The Lighspan Network http://www.lightspan.com Early Childhood Thematic Units http://www.sbcss.k12.ca.us/sbcss\specialeducation/ecthematic/helpers Science Heroes http://www.myhero.com/science/science_content.asp
S5 – Scientific Thinking	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities).		
Primary Focus S5a- Asks questions about natural phenomena; objects and organisms; and events and discoveries. S5c- Uses evidence from reliable sources to construct explanations.	Work cooperatively to identify a problem and make predictions based on S3 a. i.e. What will happen to seed growth in a mixture of potting soil and sand? Use "Jack and the Beanstalk" as a catalyst to discuss fact of natural phenomena	Use word processing software to keep a journal. Create a chart using spreadsheet software. Use digital camera to record seed growth. Create multimedia presentation to illustrate cooperative products.	T7. use age-appropriate resources. T8. use related peripheral devices. T9. use word processing. T10. create products.	AppleWorks-ClarisWorks KidPix Studio DK Eyewitness Children's Encyclopedia Inspiration MS Word	Connect with Schools and Educators http://www.sln.org/schools/index.html Science Whatzit! http://www.omsi.edu/online/whatzit/ Science Learning Network http://www.sln.org/resources/index.html

Science Early Childhood					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
S5d- Evaluates different points of view using relevant experiences, observations, and knowledge; and distinguishes between fact and opinion. S5e- Identifies problems; proposes and implements solutions; and evaluates the accuracy, design, and outcomes of investigations S5f- Works individually and in teams to collect and share information and ideas. Additional Science Standards Met · S6 a · S6 b · S6 c · S7 a · S8 a · S8 b	and fiction. Within cooperative groups compare information in books, the Internet, and newspapers based on a specific scientific topic such as recycling. Write a biography about a scientist.	Create graphic organizers to illustrate fact and fiction in "Jack and the Beanstalk." Use the Internet as a resource.	T12. use and create spreadsheets T13. use the Internet.		Beakmann's World http://www.spe.sony.com/tv/kids/beakman/ Why Field Studies are Important http://www.fieldmuseum.org/ua/nettop.htm Chicago Field Museum http://www.fieldmuseum.org/ National Academy of Sciences Education Resources http://nationalacademies.org/subjectindex/edu.html The Lighspan Network http://www.lightspan.com

Science
Elementary School

Science Elementary School					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
S1 – Physical Science Concepts	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		
Primary Focus S1a – Demonstrates understanding of properties of objects and materials. Additional Science Standards Met ◆ S5 b ◆ S5 d ◆ S5 e ◆ S6 a ◆ S7 d ◆ S8 a ◆ S8 c	Investigate the browning process of apple slices and the factors that slow or speed up the process. Investigate how an object that sinks in water can be made to float by itself. Investigate how shape and material affects the stability of a boat.	Use word processing to keep a journal of scientific observations. Use spreadsheets to create a chart. Create a multimedia presentation to illustrate scientific observations. Use a digital camera to record the affects of stability on a boat. Use the Internet as a resource.	T7. use age-appropriate resources. T8. use related peripheral devices. T9. use word processing. T10. create products. T12. use and create spreadsheets. T13. use the Internet. T15. Understand and practice responsible use of information.	KidPix Studio AppleWorks-ClarisWorks KidPix Studio MS Office HyperStudio DK Eyewitness Children's Encyclopedia Sunburst Learn About Science	Physics 4 Kids http://www.kapili.com/physics4kids/ Magnet Fun http://www.eecs.umich.edu/~coalitn/sciedoutreach/funexperiments/quickndirty/magnetfun.html Science Learning Network http://www.sln.org/resources/ Exploratorium http://www.exploratorium.edu/ Science Museum of Minnesota http://www.sci.mus.mn.us/ Science in Action http://www.bbc.co.uk/sia/front.html

Science Elementary School					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
					The Lightspan Network http://www.lightspan.com
Primary Focus S1 b - Demonstrates understanding of position and motion of objects. Additional Science Standards Met ◆ S5 b ◆ S6 a ◆ S6 b ◆ S7 a ◆ S7 b ◆ S7 d. ◆ S8 a	Construct a magnetic pendulum. Control and test variables that affect the number of complete pendulum swings in a given time.	Creat a graphic organizer that lists the steps for constructing a pendulum. Use word processing to keep a journal of scientific processes and/or observations. Create graphics and/or use digital camera to illustrate pendulum construction. Use spreadsheets to create and charts and graphs. Use the Internet as a resource.	T7. use age-appropriate resources. T8. use related peripheral devices. T9. use word processing. T10. create products. T12. use and create spreadsheets. T13. use the Internet. T15. Understand and practice responsible use of informtation.	Inspiration AppleWorks-ClarisWorks MS Office KidPix Studio DK Eyewitness Children's Encyclopedia Sunburst Learn About Science	Science Museum of Minnesota http://www.sci.mus.mn.us/ Explorer http://explorer.scrtec.org/explorer/ The Exploratorium Science Snacks http://www.exploratorium.edu/snacks/snackintro.html Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com
Primary Focus S1 c - Demonstrates understanding of light, heat, electricity, and magnetism, such as the variation of heat and temperature; how light	Plan and design a method to test materials that carry electricity and materials that do not carry electricity. Create an electrical	Use word processing to keep a journal of scientific processes and/or observations. Use spreadsheets to create charts and graphs.	T7. use age-appropriate resources. T9. use word processing. T10. create products.	AppleWorks-ClarisWorks MS Office KidPix Studio Electricity (Discovery	Electrified Ben http://sln.fi.edu/franklin/scientst/electric.html The Frankilin Institute http://sln.fi.edu/tfi/info/inf-summ.html

Science Elementary School					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
travels in a straight line until it strikes an object or how electrical circuits work. Additional Science Standards Met ◆ S5 c ◆ S8 a	circuit.	Use word processing to write a report. Use drawing software to draw a schematic of a circuit. Use the Internet as a resource.	T12. use and create spreadsheets. T13. use the Internet. T15. Understand and practice responsible use of informtation.	Channel) Sunburst Learn About Science	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com
S2 - Life Science Concepts	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		
Primary Focus S2 a - Demonstrates understanding of characteristics of organisms, such as survival and environmental support; the relationship between structure and function; and variations in behavior. ◆ Additional Science Standards Met ◆ S5 a ◆ S6 a	Remove, draw, count, measure and describe flower parts through writing and drawing. Infer the function of the various flower structures. Identify flower structures and their function as they relate to seed production. Explain how humans cause changes in the environment.	Use word processing to keep a journal of scientific processes and/or observations. Create graphics to identify flower structures. Use spreadsheets to create charts and graphs. Use the Internet as a resource. Create a multimedia presentation to illustrate	T7. use age-appropriate resources. T9. use word processing. T10. create products. T12. use and create spreadsheets. T13. use the Internet. T15. Understand and practice	AppleWorks-ClarisWorks MS Office KidPix Studio HyperStudio DK Eyewitness Children's Encyclopedia Sunburst Learn About Science	Biology 4 Kids http://www.kapili.com/biology4kids/index.html Life Has a History http://www.ucmp.berkeley.edu/education/life/tournew.html BioSURF http://www.phschool.com/science/biosurf/ BioPoint http://www.fi.edu/qa97/biology/

Science Elementary School					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
◆ S6 c ◆ S7 a ◆ S8 d	Study about recycling inititatives. Research endangered species.	life cycles of animals and plants. Use graphic organizers to chart life cycles.	responsible use of informtation.		Microbe World http://www.microbeworld.org/mlc/ Gorillas Online http://www.selu.com/bio/gorilla/ Body Changers http://www.pbs.org/wnet/nature/bodychangers/multimedia/changers-game.html Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Endangered Species http://www.esc8.net Creature World http://www.pbs.org/kratts/world/content.html
Primary Focus S2 b - Demonstrates understanding of life cycles of organisms, such as how inheritance and environment determine	Make observations of a plant or animal growth through writing and drawing. Develop a list of questions based on	Use word processing to keep a journal of scientific processes and/or observations. Use word processing to write a report.	T7. use age-appropriate resources. T8. use related peripheral devices.	AppleWorks-ClarisWorks MS Office KidPix Studio	American Museum of Natural History http://www.amnh.org/ Explorer http://explorer.scrtec.org/explorer/

Science Elementary School					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
the characteristics of an organism; and that all plants and animals have life cycles. Additional Science Standards Met ◆ S5 f ◆ S6 a ◆ S6 b ◆ S6 c ◆ S7 a ◆ S7 b ◆ S7 d ◆ S8 a ◆ S8 d	their observations of mealy worms and mealy worm behavior. Research and write a report about how inheritance and environment affect organisms. Plan and conduct responsible and appropriate experiments to foster their questions.	Create graphics to illustrate observations and/or experiments. Use spreadsheets to create charts and graphs. Use a digital camera to record observations Create a multimedia presentation. Use the Internet as a resource.	T9. use word processing. T10. create products. T12. use and create spreadsheets. T13. use the Internet. T14. Select appropriate technologies for a specific situation. T15. Understand and practice responsible use of informtation.	HyperStudio DK Eyewitness Children's Encyclopedia Sunburst Learn About Science	BioPoint http://www.fi.edu/qa97/biology/ Microbe World http://www.microbeworld.org/mlc/ Gorillas Online http://www.selu.com/bio/gorilla/ Zoom Dinosaurs http://www.zoomdinosaurs.com Waterford Press Games http://www.waterfordpress.com/game1.html Body Changers http://www.pbs.org/wnet/nature/bodychangers/multimedia/changers-game.html Ecosystems http://www.mobot.org/MBGnet/just_kids.html Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com

Science Elementary School					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
Primary Focus S2 c - Demonstrates understanding of organisms and environments, such as the interdependence of animals and plants in an ecosystem; and populations and their effects on the environment. Additional Science Standards Met ◆ S5 b ◆ S5 f ◆ S7 b ◆ S7 c ◆ S8 b ◆ S8 c ◆ S8 d	Plan, design and set up a variety of terraria to support the life cycles of the particular organisms living there. Observe and study the interdependence between plants and animals in the terraria. Create a model of a particular environment.	Use word processing to keep a journal of scientific processes and/or observations. Use a graphic organizer to describe environments and ecosystems. Create graphics using drawing software or digital camera. Create a database of consumers, producers and decomposers in the terraria. Create a multimedia presentation. Use the Internet as a resource.	T7. use age-appropriate resources. T8. use related peripheral devices. T9. use word processing. T10. create products. T11. use and create databases. T13. use the Internet. T14. Select appropriate technologies for a specific situation. T15. Understand and practice responsible use of informtation.	AppleWorks-ClarisWorks MS Office KidPix Studio HyperStudio Inspiration DK Eyewitness Children's Encyclopedia Sunburst Learn About Science	Swimming With Whales http://www.pbs.org/wnet/nature/spermwhales/html/whaleintro.html Whale Watching http://whale.wheelock.edu Bird Habitats http://wwwkaytee.com/discovery/ Explorer http://explorer.scrtec.org/explorer/ BioPoint http://www.fi.edu/qa97/biology/ Microbe World http://www.microbeworld.org/mlc/ Waterford Press Games http://www.waterfordpress.com/game1.html Gorillas Online http://www.selu.com/bio/gorilla/ Zoom Dinosaurs http://www.zoomdinosaurs.com Body Changers

Science Elementary School					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
					http://www.pbs.org/wnet/nature/bodychangers/multimedia/changers-game.html Whatzit! http://www.omsi.edu/online/whatzit.home.html Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com
Primary Focus S2 d - Demonstrates understanding of change over time, such as evolution and fossil evidence depicting the great diversity of organisms developed over geologic history. Additional Science Standards Met ◆ S5 b ◆ S6 c ◆ S7 d ◆ S8 d	Describe the similarities and differences between fossils and related organisms. Write a journal from the perspective of a paleontologist. Draw pictures of different fossils. Explain how environmental factors contributed to these similarites and differences.	Use word processing to keep a journal of scientific processes and/or observations. Use a graphic organizer to illustrate and explain similarities and differences. Use drawing software. Use Venn diagrams that show characteristics of organisms. Create a multimedia presentation that illustrates organisms and	T7. use age-appropriate resources. T9. use word processing. T10. create products. T13. use the Internet. T14. Select appropriate technologies for a specific situation. T15.Understand and practice responsible	AppleWorks-ClarisWorks MS Office KidPix Studio HyperStudio Inspiration DK Eyewitness Children's Encyclopedia Sunburst Learn About Science	Zoom Dinosaurs http://www.zoomdinosaurs.com Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com

Science Elementary School					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
		their environments. Use the Internet as a resource.	use of informtation.		
S3 – Earth and Space Science Concepts	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		
Primary Focus S3 a - Demonstrates understanding of properties of Earth materials, such as water and gases; and the properties of rocks and soils, such as texture, color, and ability to retain water. Additional Science Standards Met ◆ S5 a ◆ S6 a ◆ S8 b ◆ S8 d	Collect rock specimens from several locations. Observe the physical properties of rocks. Group them according to their various attributes. Write a rock story. Write a story to describes what happens to a drop of water as it goes through the water cycle.	Use word processing to keep a journal of scientific processes and/or observations. Create graphics using digital camera or paint software. Use a graphic organizer to illustrate and explain similarities and differences. Use spreadsheets to create charts and graphs. Create a rock database. Use word processing to write a report. Create a multimedia presentation.	T7. use age-appropriate resources. T8. use related peripheral devices. T9. use word processing. T10. create products. T11. Use and create databases. T12. use and create spreadsheets. T13. use the Internet. T14. Select appropriate technologies for a	AppleWorks-ClarisWorks MS Office KidPix Studio HyperStudio Inspiration DK Eyewitness Children's Encyclopedia Sunburst Learn About Science	US Geological Survey Learning Web http://www.usgs.gov/education/ Web Surfer http://shell.rmi.net/~michaelg/ Earth Alert http://www.discovery.com/news/earthalert/earthalert.html Athena, Earth and Space Science for K-12 http://athena.wednet.edu/ Rader's Tarrarum http://www.kapili.com/terrarum/index.html The Globe Program http://www.globe.gov/ Destination: Earth (NASA) http://www.earth.nasa.gov/

Science Elementary School					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
		Use the Internet as a resource.	specific situation. T15. Understand and practice responsible use of information.		Waterford Press Games http://www.waterfordpress.com/game1.html Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com
S3b- Demonstrates understanding of objects in the sky, such as Sun, Moon, planets, and other objects that can be observed and described; and the importance of the Sun to provide the light and heat, necessary for survival. Additional Science Standards Met ◆ S5 a ◆ S5 c ◆ S6 a ◆ S6 b ◆ S6 c ◆ S7 a	Create a weather station. Report daily record of New York City's temperature, wind direction and speed and precipitation. Explore the causes of weather patterns. Predict weather conditions.	Use word processing to keep a journal of scientific processes and/or observations. Use spreadsheets to create charts and graphs. Create graphics using paint software. Create databases. Use word processing to write a report. Create a multimedia presentation. Use the Internet as a resource.	T7. use age-appropriate resources. T8. use related peripheral devices. T9. use word processing. T10. create products. T11. Use and create databases. T12. use and create spreadsheets. T13. use the Internet. T14. Select	AppleWorks-ClarisWorks MS Office KidPix Studio HyperStudio DK Eyewitness Children's Encyclopedia Sunburst Learn About Science Tom Snyder's MapMaker software	Web Surfer http://shell.rmi.net/~michaelg/ Athena, Earth and Space Science for K-12 http://athena.wednet.edu/ The Globe Program http://www.globe.gov/ Destination: Earth (NASA) http://www.earth.nasa.gov/ Stormfax Weather Services http://www.stormfax.com/index.htm Waterford Press Games http://www.waterfordpress.com/game1.html Nine Planets

Science Elementary School					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
◆ S7 b ◆ S8 d			appropriate technologies for a specific situation. T15. Understand and practice responsible use of information.		http://www.seds.org/ nineplanets/nineplanets/ Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com
Primary Focus S3 c – Demonstrates understanding of changes in Earth and sky, such as changes caused by weathering, volcanism, and earthquakes; and the patterns of movement of objects in the sky. Additional Science Standards Met ◆ S5 a ◆ S5 b ◆ S5 c ◆ S6 ◆ S6 c ◆ S8 d	Research seismic stations. Construct a model seismograph. Measure the strength of simulated earthquakes. Compare model simulations with actual seismogram re cordings. Research seismic waves. Track earthquakes around the world. Take on the role of meteorlogist and report on weather	Use word processing to keep a journal of scientific processes and/or observations. Use spreadsheets to create charts and graphs. Create graphics using paint software and scanned images. Creat multimedia presentations. Use word processing to write a report. Use the Internet as a resource.	T7. use age-appropriate resources. T8. use related peripheral devices. T9. use word processing. T10. create products. T12. use and create spreadsheets. T13. use the Internet. T14. Select appropriate technologies for a specific situation. T15. Understand	AppleWorks-ClarisWorks MS Office KidPix Studio HyperStudio DK Eyewitness Children's Encyclopedia Sunburst Learn About Science Edmark Space Academy Tom Snyder's MapMaker software	The Weather Channel www.weatherchannel.com Weekly Earthquake http://www.mindspring.com/~proken/ Volcano World http://volcano.und.edu/ Earth and Sky Homepage http://www.earthdky.com Welcome to Knowble (Constellation Game) http://www.knowble.com Waterford Press Games http://www.waterfordpress.com/game1.html Science in Action http://www.bbc.co.uk/sia/front.html

Science Elementary School					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
	conditions. Take on the role of astronomer and report on constellations in the sky.		and practice responsible use of information.		The Lightspan Network http://www.lightspan.com
S4- Scientific Connections and Applications	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		
Primary Focus S4 a – Demonstrates understanding of big ideas and unifying concepts, such as order and organization; models, form and function; change and constancy; and cause and effect. Additional Science Standards Met ◆ S5 d ◆ S6 a ◆ S6 b ◆ S7 ◆ S7 b ◆ S7 c ◆ S8 d	Conduct an experiment to determine which brand of paper towel is the best in terms of form and function, cause and effect, cost and personal preference. Write an advertisement highlighting findings of the experiment. Build a solar iced tea maker.	Use word processing to keep a journal of scientific processes and/or observations. Use spreadsheets to create charts and graphs. Create a database Write an advertisement for a brand of paper towels. Create a multimedia presentation Use the Internet as a resource.	T7. use age-appropriate resources. T8. use related peripheral devices. T9. use word processing. T10. create products. T11. Use and create databases. T12. use and create spreadsheets. T13. use the Internet.	AppleWorks-ClarisWorks KidPix Studio MS Office HyperStudio PrintShop PressWriter DK Eyewitness Children's Encyclopedia Sunburst Learn About Science	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com How Stuff Works http://www.howstuffworks.com/index.htm

Science Elementary School					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
			T14. Select appropriate technologies for a specific situation. T15. Understand and practice responsible use of information.		
Primary Focus S4 b - Demonstrates understanding of the designed world, such as development of agricultural techniques; and the viability of technological designs. Additional Science Standards Met ◆ S5 c ◆ S5 d ◆ S6 a ◆ S6 b ◆ S7 a ◆ S7 b ◆ S8 a ◆ S8 c	Design and build model airplanes. Hold contests for different flight categories, such as distance, duration of flight time, accuracy and aerobatics (stunt flying). Make moderations to airplane designs to solve problems posed by the different flight categories. Design and build bridges.	Use word processing to keep a journal of scientific processes and/or observations. Use spreadsheets to create charts and graphs. Create graphics. Create multimedia presentaions. Use the Internet as a resource.	T7. use age-appropriate resources. T8. use related peripheral devices. T9. use word processing. T10. create products. T11. Use and create databases. T12. use and create spreadsheets. T13. use the Internet. T14. Select appropriate	AppleWorks-ClarisWorks MS Office KidPix Studio HyperStudio DK Eyewitness Children's Encyclopedia Sunburst Learn About Science	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com How Stuff Works http://www.howstuffworks.com/index.htm Welcome to Knowble (Paper Plane Factory) http://www.knowble.com

Science Elementary School					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
			technologies for a specific situation. T15. Understand and practice responsible use of information.		
Primary Focus S4 c - Demonstrates understanding of personal health, such as nutrition, substance abuse, and exercise; germs and toxic substances; personal and environmental safety. Additional Science Standards Met ◆ S5 d ◆ S5 e ◆ S8 d	Survey the school for favorite vending machine choices. Research the nutritional value of each vending machine item. Make recommendations to improve the selection of food items in the vending machines so that students can make healthier choices. Create advertisements for healthy foods.	Use word processing to keep a journal of scientific processes and/or observations. Use spreadsheets to create charts and graphs. Create a database. Write a report Create a multimedia presentation Use the Internet as a resource.	T7. use age-appropriate resources. T8. use related peripheral devices. T9. use word processing. T10. create products. T11. Use and create databases. T12. use and create spreadsheets. T13. use the Internet. T14. Select appropriate technologies for a specific situation.	AppleWorks-ClarisWorks MS Office HyperStudio PrintShop PressWriter DK Eyewitness Children's Encyclopedia Sunburst Learn About Science	Dole 5 A Day http://www.dole5aday.com/ TheYuckiest Site on the Internet http://www.yucky.com/ A healthy Body Makes Sense http://www.coreknowledge.org/CKproto2/resrcs/lessons/K98MusicParade.htm Benny Goodsport http://www.bennygoodsport.com/ Ontario Science Center http://www.osc.on.ca/JustFun/Interactive Zone/izonepages/menu.htm Kids Health http://www.kidshealth.org/index2.html Science in Action http://www.bbc.co.uk/sia/front.ht

Science Elementary School					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
			T15. Understand and practice responsible use of information.		ml The Lightspan Network http://www.lightspan.com
Primary Focus S4 d – Demonstrates understanding of science as a human endeavor: the impact of technology, such as constraints and trade-offs; feedback; benefits and risks; and problems and solutions. Additional Science Standards Met ◆ S5 d ◆ S6 a ◆ S6 b ◆ S7 a ◆ S7 c ◆ S8 a ◆ S8 c	Participate in types of challenges (such as science fairs) where students are asked to design models that meet specific criteria (i.e. Egg Drop). Write a biography of a scientist.	Use word processing to keep a journal of scientific processes and/or observations. Use spreadsheets to create charts and graphs. Make models Use word processing to write instructions. Use word processing to write a report. Create graphics Create multimedia presentations. Use the Internet as a resource.	T7. use age-appropriate resources. T8. use related peripheral devices. T9. use word processing. T10. create products. T11. Use and create databases. T12. use and create spreadsheets. T13. use the Internet. T14. Select appropriate technologies for a specific situation. T15. Understand	AppleWorks-ClarisWorks MS Office KidPix Studio HyperStudio DK Eyewitness Children's Encyclopedia Sunburst Learn About Science	Science Museum of Minnesota http://www.sci.mus.mn.us/ How Stuff Works www.howstuffworks.com/index Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com

Science Elementary School					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
			and practice responsible use of information.		
S5- Scientific Thinking	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		

Science
Elementary School

NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
Primary Focus S5a- Asks questions about natural phenomena; objects and organisms; and events and discoveries. S5c- Uses evidence from reliable sources to construct explanations. S5d- Evaluates different points of view using relevant experiences, observations, and knowledge; and distinguishes between fact and opinion. S5e- Identifies problems; proposes and implements solutions; and evaluates the accuracy, design, and outcomes of investigations. S5f- Works individually and in teams to collect and	Evaluate the claims of a new product. Describe the questions and evidence required to substantiate the claims. Conduct an investigation to test ideas. Evaluate the accuracy of the conclusions. Use data from one investigation to generate a prediction and conduct a new investigation. Work with others to examine the changes in an environment because of recent changes. Summarize a series of newspaper and magazine articles on a current topic.	Use word processing to keep a journal of scientific processes and/or observations. Use spreadsheets to create charts and graphs. Make models Use word processing to write instructions Create graphics. Create multimedia presentations. Use the Internet as a resource.	T7. use age-appropriate resources. T8. use related peripheral devices. T9. use word processing. T10. create products. T11. Use and create databases. T12. use and create spreadsheets. T13. use the Internet. T14. Select appropriate technologies for a specific situation. T15. Understand and practice responsible use of information.	AppleWorks-ClarisWorks MS Office KidPix Studio HyperStudio DK Eyewitness Children's Encyclopedia Sunburst Learn About Science	Waterford Press Games http://www.waterfordpress.com/game1.html Energy and Science Projects http://www.energy.ca.gov/education/projects/projects-html/projects.html Math-Science Learning Coalition http://www.eecs.umich.edu/mathscience/mainpage.html Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Tom Snyder's Science Court http://www.tomsnyder.com/classroom/scicourt/

Science Elementary School					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
share information and ideas. Additional Science Standards Met · S6 a · S6 b · S6 c · S7 a · S8 a · S8 b					

Science Elementary School					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
S6 a – Uses technology and tools to gather data and extend the senses. S6 b – Collects and analyzes data using concepts and techniques in Mathematics Standard 4 S6 c – Acquires information from multiple sources. S7 a- Represents data and results in multiple ways. S7 b- Uses facts to support conclusions. S7 c- Communicates in a form suited to the purpose and audience. S7 d- Critiques written and oral explanations, and uses data to resolve disagreements. S8 a- Demonstrates scientific competence by completing an experiment. S8 b- Demonstrates scientific competence by completing a systematic observation. S8 c- Demontrates scientific competence by completing a design. S8 d- Demonstrates scientific competence by	For all standards 6 through 8, see previous entries addressing specific standards in table above.				

Science Elementary School					
NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
S8 a- Demonstrates scientific competence by completing an experiment. S8 b- - Demonstrates scientific competence by completing a systematic observation. S8 c- - Demonstrates scientific competence by completing a design. S8 d- - Demonstrates scientific competence by completing non-experimental research using print and digital information.					

Science
Middle School

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
S1—Physical Science	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		

Science
Middle School

NYC Performance Standards	Content Activities	Technology-Based Performance Products/Projects	Technology Standards	Suggested Software and Resources	Web SItes
S1a—Demonstrates understanding of properties and changes of properties in matter.	Use the concept of density to explain why things float and others sink in water. Investigate the characteristics that are necessary to obtain an electric current from an electrochemical cell of metal(s) and a fluid medium. Explain the difference between recycling and reusing in terms of mass and energy conservation.	Use word-processing to keep a journal of scientific observations. Use spreadsheets to create a chart. Create a multimedia presentation to illustrate scientific observations. Use a digital camera to record physical effects. Use the Internet as a resource. Create a graphic organzier to illustrate differences between recycling and reusing.	T7. use age-appropriate resources. T8. use related peripheral devices. T9. use word processing. T10. create products. T12. use and create spreadsheets. T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	MS Office AppleWorks-ClarisWorks Champ Interface LEAP System Interface Vernier Software Computer Probes Moving Molecules HyperStudio KidPix Studio Adobe PhotoShop Inspiration	Physics 4 Kids http://www.kapili.com/physics4kids/ Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/ The Atomic Age at 50 http://www.techreview.com/articles/aug95/atomic.html
S1b—Demonstrates understanding of position and motion and forces.	Use the concept of force to explain the roles of front and rear brakes on a bicycle. Build a grandfather clock and explain how	Use word-processing to keep a journal of scientific processes and/or observations. Use word processing to write a report.	T7. use age-appropriate resources. T9. use word processing.	MS Office AppleWorks-ClarisWorks Champ Interface	Physics 4 Kids http://www.kapili.com/physics4kids/ Science in Action http://www.bbc.co.uk/sia/front.html

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
	it works.	Create graphics and/or use digital camera to illustrate physical effects and characteristics; and to record the steps in building a grandfather clock. Create a graphic organizer that lists the steps for constructing a grandfather clock. Create a multimedia presentation to illustrate scientific processes, observations, and/or steps in a procedure.	T10. create products. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	LEAP System Interface Vernier Software Computer Probes Moving Molecules HyperStudio KidPix Studio Adobe PhotoShop Inspiration	The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/ The Particle Adventure http://particleadventure.org/ Lenz's Law http://www.execpc.com/~rhoadley/maglenz.htm Science Museum of Minnesota http://www.sci.mus.mn.us/ Explorer http://explorer.scrtec.org/explorer/
S1c—Demonstrates understanding of transfer of energy, and the nature of a chemical reaction.	Explain the difference between recycling and reusing in terms of mass and energy conservation. Conduct an energy audit of the classroom and develop	Create a multimedia presentation to illustrate scientific observations. Create a graphic organizer to illustrate the difference between recycling and reusing.	T7. use age-appropriate resources. T9. use word processing. T10. create products.	MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio	Physics 4 Kids http://www.kapili.com/physics4kids/ Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
	procedures for reducing waste. Evaluate the claims and potential benefits of sunglasses that are advertised to screen out ultraviolet.	Use word processing to write a report. Use the Internet as a resource.	T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	Adobe PhotoShop Inspiration	http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html How Stuff Works www.howstuffworks.com/index The Frankilin Institute http://sln.fi.edu/tfi/info/inf-summ.html Boston Museum of Science http://www.mos.org/ The Particle Adventure http://particleadventure.org/ Fusion - Physics of a Fundamental Energy Source http://fusedweb.pppl.gov/CPEP/Chart.html
S2—Life Science Concepts	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		
S2a—Demonstrates understanding of structure and function in living systems.	Explain the effects of a particular disease (e.g., common cold) on an organism's internal structures and	Create a multimedia presentation to illustrate scientific observations. Use word processing to	T7. use age-appropriate resources. T8. use related	MS Office AppleWorks-ClarisWorks	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
	their related functions. Use drawings to demonstrate the structure and function relationships among a group of cells, tissues, or organs. Predict how long a plant will live planted in a closed glass jar located by a window; and explain what additional information regarding the plant and the surrounding environment would be needed to improve the prediction. Conduct an investigation to determine the kinds of seeds best suited to germination in a hydroponic system.	write a report. Using paint or drawing software create graphics to illustrate effects, characteristics and/or functions. Create a graphic organizer to illustrate structure and function relationships among a group of cells, tissues, or organs. Use the Internet as a resource and to gather digital images. Use word processing to keep a journal of scientific processes observations, and/or predictions. Use digital camera to record observations. Create a spreadsheet that delineates the results of seed investigation.	peripheral devices. T9. use word processing. T10. create products. T12. use and create spreadsheets. T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	HyperStudio KidPix Studio Adobe PhotoShop Inspiration	http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/ American Museum of Natural History http://www.amnh.org/ Explorer http://explorer.scrtec.org/explorer/ Biology 4 Kids http://www.kapili.com/biology4kids/index.html Life Has a History http://www.ucmp.berkeley.edu/education/life/tournew.html BioSURF http://www.phschool.com/science/ biosurf/ BioPoint http://www.fi.edu/qa97/biology/

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
					Microbe World http://www.microbeworld.org/mlc/

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
S2b—Demonstrates understanding of reproduction and heredity and the role of genes and environment on trait expression.	Write a story about how a person learned to overcome an inherited physical limitation. Explain why offspring of organisms that reproduce sexually never look exactly like their parents. Explain the lines of evidence showing that dogs and cats are related by common ancestors. Compare and contrast historical situations where species became extinct with situations where species survived due to differences in adaptive characteristics and the degree of environmental stress or change.	Create a chart (spreadsheet) illustrating a class survey of typical phenotypes such as tongue rolling, earlobe attachment, eye color etc. Create a multimedia presentation to illustrate a simulation of the breeding of various plants and/or to depict the parts of a plant (plant anatomy). Use word-processing to keep a daily journal of scientific observations. Use word-processing to write a report. Create a multimedia presentation to illustrate the lines of evidence showing dogs and cats are related through common ancestors. Create a graphic organizer to illustrate the lines of evidence that	T7. use age-appropriate resources. T9. use word processing. T10. create products. T12. use and create spreadsheets. T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio Adobe PhotoShop Inspiration Logal Software's Genetics	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html American Museum of Natural History http://www.amnh.org/ Boston Museum of Science http://www.mos.org/ Virtual Fly Lab http://vcourseware3.calstatela.edu/VirtualFlyLab/IntroVflyLab.html Mendel Web http://www.netspace.org/MendelWeb/ DNA From the Beginning http://vector.cshl.org/dnaftb/ Chromosome Kindergarten http://curriculum.calstatela.edu/courses/builders/pages/games.html

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
		dogs and cats are related through common ancestors. Use Desktop Publishing to create a booklet or newsletter that compares and contrasts historical situations where species became extinct, with situations where species survived.			Biology 4 Kids http://www.kapili.com/biology4kids/index.html

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
S2c—Demonstrates understanding of regulation and behavior and response to environmental stimuli.	Use drawings to demonstrate the structure and function relationships among a group of cells, tissues, or organs. Explain the physiology of sneezes, tears, or what happens when people laugh. Explain the lines of evidence showing that dogs and cats are related by common ancestors. Compare and contrast historical situations where species became extinct with situations where species survived due to differences in adaptive characteristics and the degree of environmental stress or change.	Create graphic organizers to illustrate structure and function relationships among a group of cells, tissues, or organs. Create a spreadsheet to record data collected from pulse rates taken at rest, immediately after walking, marching and jogging. Create a graph to compare pulse rate data. Use word-processing describing a procedure to identify and test how variables such as walking, marching jogging affect pulse rate. Use desktop publishing to create a brochure that explains the physiology of sneezes, tears, or what happens when people laugh. Create graphics to illustrate the structure	T7. use age-appropriate resources. T9. use word processing. T10. create products. T12. use and create spreadsheets. T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio Adobe PhotoShop Inspiration Champ Interface LEAP System Interface Vernier Software Computer Probes PressWriter PrintShop Adobe PageMaker	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/ Swimming With Whales http://www.pbs.org/wnet/nature/spermwhales/html/whaleintro.html Explorer http://explorer.scrtec.org/explorer/ Swimming With Whales http://www.pbs.org/wnet/nature/spermwhales/html/whaleintro.html Whale Watching http://whale.wheelock.edu Bird Habitats http://wwwkaytee.com/discovery/

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
		and function relationships among a group of cells, tissues, or organs. Use the Internet as a resource and to gather digital images.			BioPoint http://www.fi.edu/qa97/biology/ Microbe World http://www.microbeworld.org/mlc/
Primary Focus S2d—Demonstrates understanding of populations and ecosystems and the effects of resources and energy transfer on populations.	Identify a pest in the immediate environment; and use an understanding of food webs to propose and test a way to eliminate the pest without introducing environmental poisons. Conduct an investigation to determine the kinds of seeds best suited to germination in a hydroponic system. Compare and contrast historical situations where species became extinct with situations where species survived due to differences in adaptive	Use appropriate digital encyclopedias to research the disappearance of plants from tropical rain forests. Use the Internet as a resource and to gather digital images. Create graphic organizers that illustrate food webs. Create a spreadsheet to record data from the research regarding the disappearance of plants from tropical rain forests and generate Graphs from that data to view the results. Create a graphic	T7. use age-appropriate resources. T8. use related peripheral devices. T9. use word processing. T10. create products. T12. use and create spreadsheets. T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible	Grolier's Encyclopedia MS Encarta MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio Adobe PhotoShop Inspiration PressWriter PrintShop Adobe PageMaker	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/ Swimming With Whales http://www.pbs.org/wnet/nature/spermwhales/html/whaleintro.html Explorer http://explorer.scrtec.org/explorer/

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
	characteristics and the degree of environmental stress or change.	organizer to illustrate comparisons. Create a spreadsheet to record the loss of rain forest acreage over the span of 100 years and generate graphs from that spreadsheet. Use word-processing to write a narrative report identifying the effects of plant loss on the ecosystem in tropical rain forests. Use word-processing to create a persuasive argument, in the form of a newspaper editorial, for or against rain forest preservation. Use desktop publishing to create a newspaper article that identifies a pest in the immediate environment; and use an understanding of food webs to propose and test a way to eliminate the pest without introducing	use of information.		

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
		environmental poisons. Use desktop publishing to create a booklet that compares and contrasts historical situations where species became extinct with situations where species survived due to differences in adaptive characteristics and the degree of environmental stress or change. Use desktop publishing to create a booklet that explains how antibacterial soaps have allowed antibiotic resistant bacteria to thrive, thus affecting the natural selection process proposed by Charles Darwin.			

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
S2e—Demonstrates understanding of evolution, diversity, and adaptation of organisms.	Explain why offspring of organisms that reproduce sexually never look exactly like their parents. Identify a pest in the immediate environment; and use an understanding of food webs to propose and test a way to eliminate the pest without introducing environmental poisons. Conduct an investigation to determine the kinds of seeds best suited to germination in a hydroponic system. Compare and contrast historical situations where species became extinct with situations where species survived due to differences in adaptive characteristics and the degree of	Use the Internet as a resource and to gather digital images. Use word-processing to write a report that shows an understanding of food webs, to propose and test a way to eliminate a pest (the Mosquito that spreads the West Nile-like Virus) without introducing environmental poisons. Create a graphic organizer that illustrates food webs. Use appropriate CD ROM libraries, and digital encyclopedias, and the Internet to research the effects of the insecticide Malathion on the ecosystem. Use word-processing to write a persuasive argument for or against the use of Malathion to control the spread of	T7. use age-appropriate resources. T9. use word processing. T10. create products. T12. use and create spreadsheets. T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	Sim Life Grolier's Encyclopedia MS Encarta MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio Adobe PhotoShop Inspiration PressWriter PrintShop Adobe PageMaker	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
	environmental stress or change.	West Nile-like Virus. Use drawing tools / clip art libraries and imported photographic images to enhance the written report (or persuasive argument). Use desktop publishing to create a booklet that compares and contrasts historical situations where species became extinct with situations where species survived due to differences in adaptive characteristics and the degree of environmental stress or change. Create a multimedia presentation to illustrate research.			
S3—Earth and Space Concepts	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
					http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/ CERES Project http://btc.montana.edu/ceres/ Astrobiology Web http://www.astrobiology.com/ Geological Time Machine http://www.ucmp.berkeley.edu/help/timeform.html Natural Perspective http://www.perspective.com/nature/index.html

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
S3a—Demonstrates understanding of structure of the Earth system.	Explain how earthquakes, volcanoes, and sea-floor spreading have a common cause. Write a story that describes what happens to a drop of water and the physical environment through which it flows as it travels from a lake to a river via the Earth's atmosphere.	Use appropriate CD ROM Libraries, and Digital Encyclopedias to locate tectonic plates and faults around the world. Create a graphic organizer that illustrates common causes. Use the Internet as a resource and to gather digital images. Use a drawing program (and graphics-clip art, arrows) to plot earthquake sites and faults on a world map. Use word-processing to create a report identifying earthquake activity and fault lines around the world and to discuss the relationship between the two. Research the temperature changes in NY during the past fifty years.	T7. use age-appropriate resources. T9. use word processing. T10. create products. T12. use and create spreadsheets. T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	Sim Life Grolier's Encyclopedia MS Encarta MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio Adobe PhotoShop Inspiration PressWriter PrintShop Adobe PageMaker	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/ US Geological Survey Learning Web http://www.usgs.gov/education/ Web Surfer http://shell.rmi.net/~michaelg/ Earth Alert http://www.discovery.com/news/earthalert/earthalert.html Athena, Earth and Space Science for K-12 http://athena.wednet.edu/ The Globe Program http://www.globe.gov/ Destination: Earth (NASA)

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
		Create a spreadsheet to record the data obtained regarding the temperature changes in NY during the past fifty years. Create graphs using spreadsheet data obtained regarding the temperature changes in NY during the past fifty years. Use word-processing or desktop publishing to write a magazine article that explains how earthquakes, volcanoes, and sea-floor spreading have a common cause. Create a multimedia presentation that describes what happens to a drop of water and the physical environment through which it flows as it travels from a lake to a river via the Earths atmosphere.			http://www.earth.nasa.gov/
S3b—Demonstrates	Explain how	Create a multimedia	T7. use age-	Grolier's Encyclopedia	Science in Action

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
understanding of Earth's history.	earthquakes, volcanoes, and sea-floor spreading have a common cause.	presentation to illustrate a storybook to a younger child showing how occasional catastrophes such as the impact of an earthquake, asteroid, or comet can influence the Earth's structure and history. Use the Internet as a resource and to gather digital images. Create spreadsheets to collect and record local daily weather data. Create graphs from spreadsheets to analyze the weather data recorded in the aforementioned spreadsheet (i.e. the number of sunny, cloudy, rainy etc. days). Use a drawing program and graphics (clip art, weather map symbols), to create a local weather map and a model weather station.	appropriate resources. T9. use word processing. T10. create products. T12. use and create spreadsheets. T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	MS Encarta MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio Adobe PhotoShop PressWriter PrintShop Adobe PageMaker	http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/ Earth, Wind and Ice http://www.pbs.org/wgbh/nova/everest/earth/ Oceanography http://www.onr.navy.mil/focus/ocean/ Set in Stone http://www.blm.gov/education/paleo/ Arizona Sedimentary Geology and Paleontology http://www.psiaz.com/Schur/azpaleo/paleo.html

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
		Use desktop publishing, to write a magazine article that explains how earthquakes, volcanoes, and sea-floor spreading have a common cause.			
S3c—Demonstrates understanding of Earth in the Solar System.	Write a story that describes what happens to a drop of water and the physical environment through which it flows as it travels from a lake to a river via the Earth's atmosphere. Predict what will happen to the reading of your weight on a bathroom scale while riding in an elevator, investigate your predication, and explain why the prediction was or was not accurate. Use the concept of gravity to explain why people can jump higher on the Moon than they can on	Use word-processing to write a story. Create spreadsheets to record sunrise and sunset data and changes in day length. Generate appropriate graphs from spreadsheets. Use the Internet for research and to access satellite imagery. Use desktop publishing to write a newspaper article explaining why we experience different seasons (Summer, Winter etc.) Create a multimedia presentation that illustrates the phases of the moon in relation to the position of the Earth	T7. use age-appropriate resources. T9. use word processing. T10. create products. T12. use and create spreadsheets. T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	Grolier's Encyclopedia MS Encarta MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio Adobe PhotoShop Inspiration PressWriter PrintShop Adobe PageMaker Rain Forest Researchers	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/ US Geological Survey Learning Web http://www.usgs.gov/education/ Web Surfer http://shell.rmi.net/~michaelg/ Earth Alert http://www.discovery.com/news/earthalert/earthalert.html Athena, Earth and Space Science

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
	Earth.	and the Sun. Create a multimedia presentation that illustrates a complete solar eclipse, and/or, a complete lunar eclipse. Create a multimedia presentation that describes what happens to a drop of water and the physical environment through which it flows as it travels from a lake to a river via the Earth's atmosphere.		CyberSky Distant Suns	for K-12 http://athena.wednet.edu/ Rader's Tarrarum http://www.kapili.com/terrarum/index.html The Globe Program http://www.globe.gov/ Destination: Earth (NASA) http://www.earth.nasa.gov/
S3d—Demonstrates understanding of natural resource management.	Identify a place that is subject to periodic flooding, evaluate its positive and negative consequences, and study different ways of maintaining, reducing or eliminating the likelihood of flooding.	Create a database to record dry garbage items each student collected during the week. Create a spreadsheet to record the dry garbage items each student collected during the week and calculate the average quantity of garbage generated by each student, class and school.	T7. use age-appropriate resources. T9. use word processing. T10. create products. T12. use and create spreadsheets. T13. use the Internet.	Grolier's Encyclopedia MS Encarta MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio Adobe PhotoShop	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/ Nine Planets

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
		Generate graphs using the aforementioned spreadsheet data to analyze and view the data. Use desktop publishing to create a brochure regarding effective school waste management. Use appropriate CD ROM libraries, and digital encyclopedias to determine the best way to manage the amount of garbage generated by the students. Use the Internet as a resource and to gather digital images. Use desktop publishing to create a booklet that that identifies a place that is subject to periodic flooding, evaluate its positive and negative consequences, and study different ways of maintaining, reducing or	T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	PressWriter PrintShop Adobe PageMaker	http://www.seds.org/nineplanets/nineplanets/

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
		eliminating the likelihood of flooding.			
S4—Scientific Connections and Applications	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		Frank Potter's Science Gems http://www.sciencegems.com/
S4a—Demonstrates understanding of big ideas and unifying concepts.	Create a health pamphlet for a track team that travels around North America to help them adjust to altitudes different from the place where they usually train, and explain why these adjustments are necessary.	Use desktop publishing to create a health booklet for a track team that travels around North America to help them adjust to altitudes different from the place where they usually train, and explain why these adjustments are necessary. Use the Internet as a resource and to gather digital images. Use graphics and clip art to enhance the pamphlet. Create a multimedia presentation that demonstrates the order,	T7. use age-appropriate resources. T9. use word processing. T10. create products. T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	Grolier's Encyclopedia MS Encarta MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio Adobe PhotoShop PressWriter PrintShop Adobe PageMaker Rain Forest Researchers	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/ Radio JOVE http://radiojove.gsfc.nasa.gov/ How Stuff Works http://www.howstuffworks.com/index.htm

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
		organization, changes and constancy of the planets in the Solar System. Use word-processing to write an informative essay about the causes and effects the mosquito borne West Nile-like Virus has had on the New York area.			
S4b—Demonstrates understanding of the designed world.	Develop a plan to modify the school's fire warning system for students with disabilities. Analyze an automatic icemaker and explain how its design takes into account the differences in the properties of water in liquid and solid states. Identify a pest in a local agricultural setting; and compare and contrast the risks and benefits of chemical and biological pest	Use word-processing to create a report identifying a pest in a local agricultural setting and the problems that pest causes. Create a multimedia presentation to compare and contrast the risks and benefits of chemical versus biological pest control. Use desktop publishing to create a pamphlet to describe a plan to modify the school's fire warning system for students with disabilities.	T7. use age-appropriate resources. T9. use word processing. T10. create products. T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	Grolier's Encyclopedia MS Encarta MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio Adobe PhotoShop Inspiration PressWriter PrintShop	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/ Radio JOVE http://radiojove.gsfc.nasa.gov/ How Stuff Works http://www.howstuffworks.com/index.htm

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
	control.	Create a graphic organizer to illustrate comparisons. Use the Internet as a resource and to gather digital images. Create a multimedia presentation that illustrates the different kinds of antibiotics and why different antibiotics are used.		Adobe PageMaker Rain Forest Researchers	The Tech Museum of Innovation http://www.thetech.org/ Dante II Frame Walking Robot http://img.arc.nasa.gov/dante/dante.html Virtual Archaeology http://www.educ.sfu.ca/people/staff/jmd/archaeology/IntroPg.htm
S4c—Demonstrates understanding of health.	Hypothesize why people tend to get more colds and flu in the winter and discuss ways to prevent the spread of illness. Investigate local water quality standards and make recommendations to school officials about water quality on and near the campus. Identify a pest in a local agricultural setting; and compare	Use word-processing to hypothesize why people get more colds and flu in the winter and discuss ways to prevent the spread of illness. Use the Internet as a resource and to access satellite images. Use desktop publishing to create a booklet or brochure discussing the ways to prevent the spread of colds and flu. Create a multimedia	T7. use age-appropriate resources. T9. use word processing. T10. create products. T12. use and create spreadsheets. T13. use the Internet. T14. select appropriate technologies for a	Grolier's Encyclopedia MS Encarta MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio Adobe PhotoShop Inspiration PressWriter	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/ Dole 5 A Day http://www.dole5aday.com/ TheYuckiest Site on the Internet

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
	and contrast the risks and benefits of chemical and biological pest control.	presentation that describes how to avoid falling and subsequent injury when there is ice on the ground. Create spreadsheets to record the pH of rainwater samples collected over a three-month period and create a graph from the spreadsheet data. Use CD ROM libraries, and digital encyclopedias to research the adverse effects of acid rain on plants and the environment in general. Use desktop publishing to create a newspaper article that discusses the causes of acid rain and the adverse effects it has on plants and the environment in general.	specific situation. T15. understand and practice responsible use of information.	PrintShop Adobe PageMaker Rain Forest Researchers	http://www.yucky.com/ A healthy Body Makes Sense http://www.coreknowledge.org/CKproto2/ resrcs/lessons/K98MusicParade.htm Benny Goodsport http://www.bennygoodsport.com/ Ontario Science Center http://www.osc.on.ca/JustFun/InteractiveZone/izonepages/menu.htm Columbia Virtual Body http://www.medtropolis.com/vbody/ Consumer Health http://ericir.syr.edu/Virtual/Lessons/Health/Consumer_Health/COH0001.html Kids Health http://www.kidshealth.org/index2.html
S4d –Demonstrates understanding of the impact of technology.	Create a health pamphlet for a track team that travels around North America	Use appropriate CD ROM libraries, digital encyclopedias, and the Internet to research the	T7. use age-appropriate resources.	Grolier's Encyclopedia MS Encarta	Science in Action http://www.bbc.co.uk/sia/front.html

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
	to help them adjust to altitudes different from the place where they usually train, and explain why these adjustments are necessary. Develop a plan to modify the school's fire warning system for students with disabilities. Analyze an automatic icemaker and explain how its design takes into account the differences in the properties of water in liquid and solid states. Identify a pest in a local agricultural setting; and compare and contrast the risks and benefits of chemical and biological pest control.	problems created by industrial and automotive pollution. Use word-processing to create a persuasive argument discussing the benefits, risks, problems and possible solutions regarding pollution. Research the constraints put on automobile emissions by the federal government. Use the Internet as a resource and to gather digital images. Create a multimedia presentation depicting the changes in automobiles since 1964 and how redesigning and re-engineering automobiles affected their exhaust emissions and air pollution.	T9. use word processing. T10. create products. T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio Adobe PhotoShop Inspiration PressWriter PrintShop Adobe PageMaker National Geographic MapMaker's Toolkit	The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/ Science & Technology Magazine http://www.llnl.gov/str/
S4e—Demonstrates understanding of impact of science.	Identify a pest in a local agricultural setting; and compare	Use word-processing to write a persuasive argument for or against	T7. use age-appropriate resources.	Grolier's Encyclopedia MS Encarta	Science in Action http://www.bbc.co.uk/sia/front.html

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
	and contrast the risks and benefits of chemical and biological pest control.	the use of Malathion to control the spread of West Nile-like Virus and/or, how using Malathion affects aquifers and well water. Use appropriate CD ROM libraries, digital encyclopedias, and the Internet to research how the discovery of antibiotics (Penicillin, etc.) affected the lives and health of people. Use desktop publishing or word-processing to create a newspaper article that would have been written at the time that Penicillin was first used and discuss how it affected the lives of soldiers during World War II, and, people in general. Create a multimedia presentation depicting the affect antibiotics have on bacterial cells.	T9. use word processing. T10. create products. T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio PressWriter PrintShop Adobe PageMaker	The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html How Stuff Works www.howstuffworks.com/index Boston Museum of Science http://www.mos.org/ National Geographic http://www.nationalgeographic.com/index.html Archaeology http://www.archaeology.org/main.html Smithsonian Magazine http://www.smithsonianmag.si.edu/
S5 Scientific Thinking	Students will:	Students will:	Students will:		Science Museum of Minnesota

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
			(T1-T6 are implied throughout the listed activities)		http://www.sci.mus.mn.us/
S5a—Frames questions to distinguish cause and effect; and identifies or controls variables.	Investigate the results of two fellow students' plant growth experiments and recommend ways to enhance the information. Determine if the scientific evidence in the summary data chart in Consumer Reports substantiates recommendations about the "Best Buy" for a particular purchase. Work with another student to investigate the effects of several variables on oxygen production in an aquatic plant, e.g., nutrients, light, color of container.	Use word processing to keep a journal of scientific observations. Use word-processing to create a hypothesis about the effect that different colored light may have on the growth of plants, and, to create a step-by-step experiment to test the effect different colored light has on the growth of plants. Create a multimedia presentation that poses questions to be answered daily regarding the status of a student's plant over the period of one month. Have students answer one question everyday and consider it as part of the observation aspect of the experiment. Use drawing and graphics (and a digital camera) to enhance the	T7. use age-appropriate resources. T8. use related peripheral devices. T9. use word processing. T10. create products. T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio Adobe PhotoShop PressWriter PrintShop Adobe PageMaker	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/ Science Museum of Minnesota http://www.sci.mus.mn.us/ Waterford Press Games http://www.waterfordpress.com/game1.html Energy and Science Projects http://www.energy.ca.gov/education/projects/projects-html/projects.html

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
		aforementioned presentation depicting the status of the plants from day to day. Use desktop publishing to write an editorial newspaper article to determine if the scientific evidence in the summary data chart found in the Consumer Reports magazine substantiates recommendations about the "Best Buy" for a particular purchase. Use the Internet as a resource and to gather digital images.			
S5b—Uses concepts from Science Standards 1 to 4 to explain a variety of observations and phenomena.	Investigate the results of two fellow students' plant growth experiments and recommend ways to enhance the information. Determine if the scientific evidence in the summary data chart in Consumer	Use word-processing to keep a journal of scientific observations. Use a digital camera to record scientific investigations. Use word-processing to produce a brochure evaluating the potential risks and benefits of a	T7. use age-appropriate resources. T8. use related peripheral devices. T9. use word processing. T10. create products.	Grolier's Encyclopedia MS Encarta MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio	

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
	Reports substantiates recommendations about the "Best Buy" for a particular purchase. Work with another student to investigate the effects of several variables on oxygen production in an aquatic plant, e.g., nutrients, light, color of container. Evaluate the claims and potential risks and benefits of a newly advertised "diet pill."	newly advertised diet pill. Use the Internet as a resource and to gather digital images. Create a multimedia presentation that poses questions to be answered daily regarding the status of a student's plant over the period of one month. Have students answer the questions everyday and consider it to be the observation part of this experiment. Use Desktop Publishing to write an editorial newspaper article to determine if the scientific evidence in the summary data chart in Consumer Reports substantiates recommendations about the "Best Buy" for a particular purchase. Use drawing and graphics (and a digital	T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	Adobe PhotoShop PressWriter PrintShop Adobe PageMaker Rain Forest Researchers	

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
		camera) to enhance the aforementioned presentation and depict the status of the plants from day to day.			
S5c—Uses evidence from reliable sources to develop descriptions, explanations, and models.	Investigate the results of two fellow students' plant growth experiments and recommend ways to enhance the information. Determine if the scientific evidence in the summary data chart in Consumer Reports substantiates recommendations about the "Best Buy" for a particular purchase. Work with another student to investigate the effects of several variables on oxygen production in an aquatic plant, e.g., nutrients, light, color of container. Evaluate the claims	Use word-processing to produce a brochure evaluating the potential risks and benefits of a newly advertised diet pill. Use word-processing to keep a journal of scientific observations. Use the Internet as a resource and to gather digital images. Use desktop publishing to write an editorial newspaper article to determine if the scientific evidence in the summary data chart in Consumer Reports substantiates recommendations about the "Best Buy" for a particular purchase. Create a multimedia	T7. use age-appropriate resources. T8. use related peripheral devices. T9. use word processing. T10. create products. T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio Adobe PhotoShop PressWriter PrintShop Adobe PageMaker	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
	and potential risks and benefits of a newly advertised "diet pill."	presentation that poses questions to be answered daily regarding the status of a student's plant over the period of one month. Have students answer the questions everyday and consider it to be part of the observation aspect of this experiment. Use drawing and graphics (and a digital camera) to enhance the presentation and depict the status of the plants from day to day.			
S5d—Proposes, recognizes, analyses, considers, and critiques alternative explanations; and distinguishes between fact and opinion.	Investigate the results of two fellow students' plant growth experiments and recommend ways to enhance the information. Determine if the scientific evidence in the summary data chart in Consumer Reports substantiates recommendations about the "Best Buy" for a particular	Use appropriate CD ROM libraries, Digital encyclopedias, and the Internet to research the facts about the spread of AIDS as opposed to opinions and other unsubstantiated information. Use word-processing to create a booklet explaining the facts versus opinions about the spread of AIDS.	T7. use age-appropriate resources. T9. use word processing. T10. create products. T13. use the Internet. T14. select appropriate technologies for a specific situation.	Grolier's Encyclopedia MS Encarta Netscape MS Internet Explorer AppleWorks-ClarisWorks MS Word Adobe PageMaker PressWriter	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/ Emerging Infectious Diseases (CDC)

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
	purchase. Work with another student to investigate the effects of several variables on oxygen production in an aquatic plant, e.g., nutrients, light, color of container. Evaluate the claims and potential risks and benefits of a newly advertised "diet pill."	Use word-processing to keep a journal of scientific observations. Use word-processing to produce a brochure evaluating the potential risks and benefits of a newly advertised diet pill. Create a multimedia presentation that poses questions to be answered daily regarding the status of a student's plant over the period of one month. Have students answer the questions everyday and consider it to be the observation part of this experiment.	T15. understand and practice responsible use of information.		http://www.cdc.gov/ncidod/eid/index.htm
S5e—Identifies problems; proposes and implements solutions; and evaluates the accuracy, design, and outcomes of investigations.	Investigate the results of two fellow students' plant growth experiments and recommend ways to enhance the information. Determine if the scientific evidence in the summary data	Use word-processing to keep a journal of scientific observations. Create a multimedia presentation that poses questions to be answered daily regarding the status of a student's plant over the period of one month. Have students answer	T7. use age-appropriate resources. T9. use word processing. T10. create products. T13. use the Internet.	MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio Adobe PhotoShop	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
	chart in Consumer Reports substantiates recommendations about the "Best Buy" for a particular purchase. Work with another student to investigate the effects of several variables on oxygen production in an aquatic plant, e.g., nutrients, light, color of container. Evaluate the claims and potential risks and benefits of a newly advertised "diet pill."	the questions everyday and consider it to be the observation part of this experiment. Use the Internet as a resource and to gather digital images. Use desktop publishing to write an editorial newspaper article to determine if the scientific evidence in the summary data chart in Consumer Reports substantiates recommendations about the "Best Buy" for a particular purchase.	T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	PressWriter PrintShop Adobe PageMaker	Boston Museum of Science http://www.mos.org/ Science Learning Network www.snl.org Smithsonian Institution www.si.edu
S5f—Works individually and in teams to collect and share information and ideas.	Investigate the results of two fellow students' plant growth experiments and recommend ways to enhance the information. Work with another student to investigate the effects of several variables on oxygen production in an	Use word-processing to keep a journal of scientific processes and/or observations. Use word-processing to critique articles discussing the spread of AIDS. Working as a group, create a multimedia presenation that	T7. use age-appropriate resources. T9. use word processing. T10. create products. T13. use the Internet. T14. select	MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
	aquatic plant, e.g., nutrients, light, color of container. Analyze the relationship between distance, time speed and acceleration. In groups create a procedure to identify and test how variables affect pulse rate. In groups develop a persuasive argument for or against rain forest preservation. Create a brochure listing helpful and harmful types of bacteria.	illustrates collected data, observations and conclusions. Use the Internet as a resource and to gather digital images.	appropriate technologies for a specific situation. T15. understand and practice responsible use of information.		
S6 Scientific Tools and Technologies	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		
S6a—Uses technology and tools to observe and measure objects, organisms, and phenomena, directly,	Use a microcomputer-based investigation to compare the rates at which different carbonated beverages	Create a spreadsheet to compare the rates at which different carbonated beverages in a variety of containers	T7. use age-appropriate resources. T9. use word	MS Office AppleWorks-ClarisWorks	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
indirectly, and remotely.	in a variety of containers lose their fizz. Create a picture of cells and organisms seen through a microscope and label the parts. Create a booklet to teach another student how to conduct field observations.	lose their fizz. Use word-processing to keep a journal of scientific processes and/or observations. Create a multimedia presenation that illustrates collected data, observations and conclusions. Use the Internet as a resource and to gather digital images. Use desktop publishing to create a brochure illustrating field observations. Use digital graphics to illustrate above brochure.	processing. T10. create products. T12. use and create spreadsheets. T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	HyperStudio KidPix Studio Adobe PhotoShop Inspiration PressWriter PrintShop Adobe PageMaker	http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/
S6b—Records and stores data using a variety of formats.	Record the types of rocks found on and near the school property. Create a presentation that presents the types of rocks found on and	Create a database to record the types of rocks found. Use word-processing to keep a journal of scientific processes and/or observations.	T7. use age-appropriate resources. T8. use related peripheral devices. T9. use word	MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
	near the school property. Record the types of rocks found on and near the school property, and, to generate Graphs from that data.	Use the Internet as a resource. Use a digital camera to record types of rocks. Create a multimedia presenation that illustrates collected data, observations and conclusions.	processing. T10. create products. T11. use and create databases. T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	Adobe PhotoShop	http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/
S6c—Collects and analyzes data using concepts and techniques in Mathematics Standard 4.	Conduct a field research project to compare the distribution of birds near the school with a field guide for the region to see if local distributions are the same as regional. Record the number of different types of birds near the school.	Create a database to record the types of birds. Create a spreadsheet to compare the distribution of birds near the school with a field guide for the region to see if local distributions are the same as regional Use word-processing to keep a journal of scientific processes and/or observations.	T7. use age-appropriate resources. T8. use related peripheral devices. T9. use word processing. T10. create products. T11. use and create databases.	MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio Adobe PhotoShop PressWriter PrintShop	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
		Create a multimedia presenation that illustrates collected data, observations and conclusions. Use the Internet as a resource and to gather digital images. Use desktop publishing to create a brochure illustrating field observations. Use a digital camera to record observations.	T12. use and create spreadsheets. T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	Adobe PageMaker	
S6d—Acquires information from multiple sources.	Conduct a field research project to compare the distribution of birds near the school with a field guide for the region to see if local distributions are the same as regional. Compare the accuracy and timeliness of local weather information from a variety of sources.	Create a database to record the types of birds. Create a spreadsheet to compare the distribution of birds near the school with a field guide for the region to see if local distributions are the same as regional. Use word-processing to keep a journal of scientific processes and/or observations.	T7. use age-appropriate resources. T9. use word processing. T10. create products. T11. use and create databases. T12. use and create spreadsheets.	MS Office AppleWorks-ClarisWorks HyperStudio Inspiration KidPix Studio Adobe PhotoShop PressWriter	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/ Connect with Schools and

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
	Exchange data on the acidity of rain with students from other states or countries. Figure out why the data differ, if they do. Record local temperature and weather information and determine the average or mean temperature. Get current information on the health effects of long-term space travel. Create a Graph based on the data from the local weather information. Compare the accuracy and timeliness of local weather information from a variety of sources.	Create a multimedia presentation that illustrates collected data, observations and conclusions. Use the Internet for research and communication with students from other states and countries. Use desktop publishing to create a brochure illustrating field observations. Use digital graphics to illustrate above brochure.	T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	PrintShop Adobe PageMaker	Educators http://www.sln.org/schools/index.html
S6e—Recognizes sources of bias in data.	Show the proper way to take a core sample of soil so as to avoid errors and/or observer	Create a graphic organizer that illustrates the proper way to take a core sample of soil.	T7. use age-appropriate resources.	Encyclopedia MS Office	Science in Action http://www.bbc.co.uk/sia/front.html

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
	bias. Explain the problems a colorblind person would have and the errors he/she would make when describing the colors of birds or other things. Using obtained information hypothesize about the composition of the rocks that comprise the area beneath the school grounds Discuss the problems inherent to observer bias and sampling error.	Use word-processing to keep a journal of scientific processes and/or observations. Use word-processing to write a newspaper article that avoids bias. Create a database to record the types of rocks. Create a multimedia presentation that discusses problems inherent to observer bias and sampling error.	T9. use word processing. T10. create products. T11. use and create databases. T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	AppleWorks-ClarisWorks HyperStudio KidPix Studio Adobe PhotoShop Inspiration PressWriter PrintShop Adobe PageMaker	The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/
S7 – Scientific Communication	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
					http://www.mos.org/ Quantum Magazine http://www.nsta.org/quantum/ The Year in Science http://www.sciam.com/explorations/1999/122099yearend/index.html
S7a—represents data and results in multiple ways.	Create pictures illustrating the steps in an experiment. Record data from an experiment or other source and generate different types of graphs.	Create a graphic organizer that illustrates the steps in an experiment. Use digital photography and digital pictures to illustrate the steps in an experiment. Use word-processing to keep a journal of scientific processes and/or observations. Create a spreadsheet and graphs that illustrate data recorded from an experiment. Use the Internet as a resources and to gather digital images.	T7. use age-appropriate resources. T8. use related peripheral devices. T9. use word processing. T10. create products. T12. use and create spreadsheets. T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and	MS Office AppleWorks-ClarisWorks Inspiration KidPix Studio HyperStudio	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
		Create a multimedia presentation that illustrates the steps in an experiment.	practice responsible use of information.		
S7b—Argues from evidence.	Write an advertisement for a hair care product that explains the chemistry of how it works. Produce a newspaper editorial article that analyzes a ballot initiative on a local endangered species. Create a presentation to promote the use of biodegradable detergents based on secondary research.	Use word-processing or desktop publishing to write an advertisement for a hair care product that explains the chemistry of how it works. Use word-processing to keep a journal of scientific processes and/or observations. Use the Internet as a resource and to gather digital images. Use word-processing or desktop publishing to produce a newspaper article that analyzes a ballot initiative on a local endangered species. Create a multimedia presentation that promotes the use of biodegradable detergents	T7. use age-appropriate resources. T9. use word processing. T10. create products. T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio Adobe PhotoShop PressWriter PrintShop Adobe PageMaker	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
		based on secondary research.			
S7c—Critiques published materials.	Analyze and give a speech about a ballot initiative on toxic chemicals. Critique a USA Today article which reports that eating hot dogs in childhood causes adult leukemia. Write a review of an episode of Beakman's World. Create a newspaper editorial that analyzes a ballot initiative on toxic chemicals.	Use the Internet as a resource. Use word-processing to write a speech; critique of a newspaper article; review of a scientific television episode. Create a multimedia presentation to illustrate critique. Use word-processing or desktop publishing to produce a newspaper article that analyzes a ballot initiative on toxic chemicals.	T7. use age-appropriate resources. T9. use word processing. T10. create products. T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio Adobe PhotoShop PressWriter PrintShop Adobe PageMaker	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/
S7 d—Explains a scientific concept or procedure to other students.	Make an animated video illustrating how white blood cells protect the body from infectious agents. Create a picture of a white blood cell engulfing and destroying an	Use a digital video camera to create videos that can be edited using appropriate software. Create a multimedia presentation that uses digital videos to explain hwo white blood cells protect the body from	T7. use age-appropriate resources. T8. use related peripheral devices. T9. use word processing.	MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio Adobe PhotoShop	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
	infectious agent Illustrate how white blood cells protect the body from infectious agents.	infectious agents. Use the Internet for research and to gather digital images and videos.	T10. create products. T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	PressWriter PrintShop Adobe PageMaker Adobe Premier MovieWorks iMovie	Boston Museum of Science http://www.mos.org/
S7e—Communicates in a form suited to the purpose and the audience.	Create a pamphlet that offers a persuasive argument in favor of using Malathion to control mosquitoes and, as a result, the diseases they transmit to people. Create an advertisement for a cold relief product and explain how it works.	Use appropriate CD ROM libraries, and digital encyclopedias, and the Internet to research the effects of the insecticide Malathion on the ecosystem and people. Use the Internet as a resource and to gather digital graphics. Use word-processing to create a persuasive argument for or against the use of Malathion to control the spread of West Nile-like Virus.	T7. use age-appropriate resources. T9. use word processing. T10. create products T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	Grolier's Encyclopedia MS Encarta MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio Adobe PhotoShop PressWriter PrintShop Adobe PageMaker	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
		Use desktop publishing to create a pamphlet that includes advertisements.			
S8—Scientific Investigation	Students will:	Students will:	Students will: (T1-T6 are implied throughout the listed activities)		Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/ Science Daily http://www.sciencedaily.com/ Exploratorium http://www.exploratorium.edu/exploring/index.html BioPoint http://www.fi.edu/qa97/biology/ Science Museum of Minnesota http://www.sci.mus.mn.us/
S8a—Demonstrates scientific competence by completing an	Analyze de-icers for relative effectiveness, cost, and	Use word-processing to keep a journal of scientific processes	T7. use age-appropriate resources.	MS Office AppleWorks-	Science in Action http://www.bbc.co.uk/sia/front.html

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
experiment.	environmental impact. Study different methods for cooking chicken considering health and aesthetics. Create a hypothesis and design a controlled experiment to test the effects of different color lights on the growth of a plant.	and/or observations. Create a spreadsheet that illustrates research. Use the Internet as a resource. Use digital photography to illustrates steps in an experiment. Create a graphic organizer that illustrates steps in an experiment. Use word-processing to write a report. Create a multimedia presentation to illustrate an experiment.	T8. use related peripheral devices. T9. use word processing. T10. create products. T12. use and create spreadsheets. T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	ClarisWorks HyperStudio KidPix Studio Adobe PhotoShop Inspiration	The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/ Science Museum of Minnesota http://www.sci.mus.mn.us/
S8b—Demonstrates scientific competence by completing fieldwork.	Conduct a field study of monument degradation over time at a local cemetery. Adopt a stream and use that location to study habitat and water quality over time.	Use word-processing to write a report. Use word processing to keep a journal of scientific processes and/or observations. Use digital photography to record observations.	T7. use age-appropriate resources. T8. use related peripheral devices. T9. use word processing.	MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio Adobe PhotoShop	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
	Record observations about the effects of weathering on the school building and property.	Use the Internet as a resource and to gather digital images. Create a multimedia presentation to illustrate observations.	T10. create products. T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.		Boston Museum of Science http://www.mos.org/ Why Field Studies are Important http://www.fieldmuseum.org/ua/nettop.htm Chicago Field Museum http://www.fieldmuseum.org/ National Academy of Sciences Education Resources http://nationalacademies.org/subjectindex/edu.html
S8c—Demonstrates scientific competence by completing a design.	Study different methods for cooking chicken considering health and aesthetics. Design a protective container for an uncooked egg using the concepts of force, motion, gravity, and acceleration and test the design by dropping the container (egg enclosed) from a one-story building. Write and edit	Use word processing to keep a journal of scientific processes and/or observations. Create a spreadsheet that illustrates research. Use the Internet as a resource and to gather digital images. Use digital photography to illustrate design steps. Use word-processing to write and edit	T7. use age-appropriate resources. T8. use related peripheral devices. T9. use word processing. T10. create products. T12. use and create spreadsheets. T13. use the Internet.	MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio Adobe PhotoShop Inspiration	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
	instructions for building a Rube Goldberg device. Create a Rube Goldberg device containing as many energy transfers and transformations as possible.	instructions. Create a graphic organizer to show instructions for building a Rube Goldberg device. Create a multimedia presentation.	T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.		
S8d—Demonstrates scientific competence by completing secondary research.	Research local climate changes over the last century. Research the changes in Rain Forest acreage during the past 100 years.	Use the Internet as a resource and to gather digital images. Use word-processing to write a report. Create spreadsheet to record climate changes; changes in Rain Forest acreage. Create a multimedia presentation to illustrate research.	T7. use age-appropriate resources. T9. use word processing. T10. create products. T13. use the Internet. T14. select appropriate technologies for a specific situation. T15. understand and practice responsible use of information.	Grolier's Encyclopedia MS Encarta MS Office AppleWorks-ClarisWorks HyperStudio KidPix Studio Adobe PhotoShop Rain Forest Researchers	Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/ Science Museum of Minnesota http://www.sci.mus.mn.us/sln/tf/s/strongshapes/strongshapes.html Science in Action http://www.bbc.co.uk/sia/front.html The Lightspan Network http://www.lightspan.com

Science Middle School					
NYC Performance Standards	**Content Activities**	**Technology-Based Performance Products/Projects**	**Technology Standards**	**Suggested Software and Resources**	**Web SItes**
					Science Learning Network http://www.sln.org/resources/index.html Boston Museum of Science http://www.mos.org/ Architecture Home Model http://communitydisc.wst.esu3.k12.ne.us/CGI/TAF/cdunitplan.taf?function=detail&Layout_0_uid1=62 How Stuff Works http://www.howstuffworks.com/