

VIRGINIA STANDARDS OF LEARNING

**Spring 2006 Released Test**

# GRADE 3 SCIENCE

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CORE 1

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**DIRECTIONS**

Read each question carefully and choose the best answer. Then mark the space on your answer document for the answer you have chosen.

**SAMPLE**

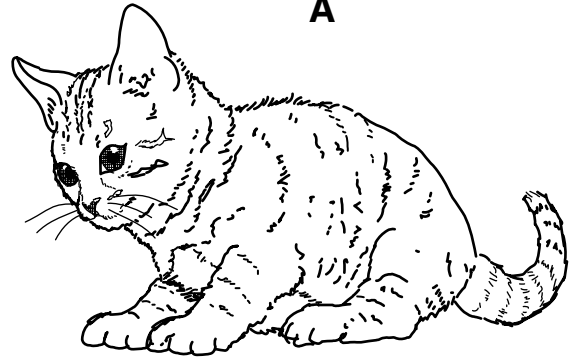
**When the Earth is seen from outer space, it looks mainly blue. This is because most of the Earth is covered with —**

- A ice
- B mountains
- C oceans
- D deserts

1



**A**

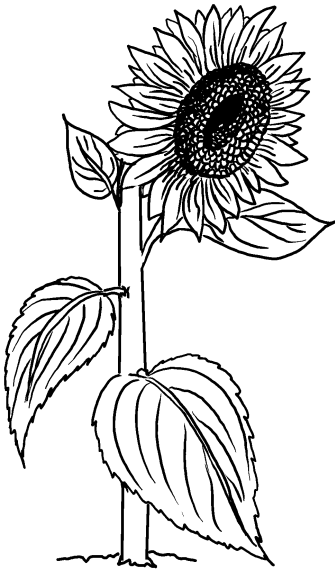


**B**

**Which of these is an observation for the kittens in the picture?**

- A Kitten A is prettier than kitten B.
- B Kitten A has longer fur than kitten B.
- C Kitten A is my favorite kitten.
- D Kitten A runs faster than kitten B.

2



**This sunflower is how many blocks tall?**

- F 7
- G 8
- H 9
- J 10

**3 Recycling and reusing are very important ways to help people —**

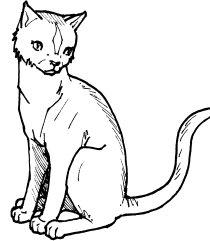
- A save natural resources
- B clean up their homes
- C make soil for plants
- D kill harmful germs

**4 Which of these animals is prey for frogs?**

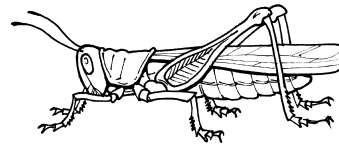
F



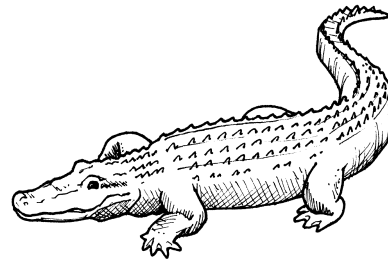
G



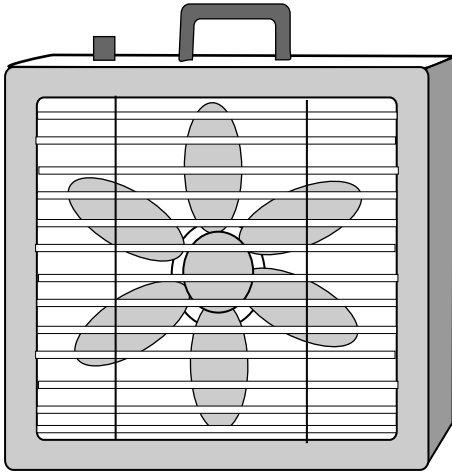
H



J



5



**What type of motion is needed for the blades on this fan to blow air?**

- A Up and down
- B Straight
- C Back and forth
- D Circular

**6 Which of these must an apple tree have in order to grow?**

- F Rocks
- G Fruit
- H Flowers
- J Water

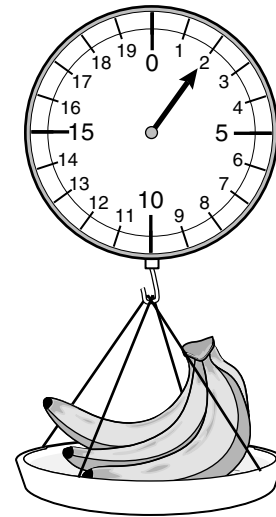
**7 Which of these natural resources comes from plants?**

- A Steel
- B Wood
- C Aluminum
- D Cement

**8 Warmer temperatures and more sunlight in spring cause plants to —**

- F make buds and new leaves
- G drop their leaves
- H stop growing and wilt
- J change from green to yellow

9



**What unit is used to measure the weight of the bananas?**

- A Inches
- B Degrees
- C Pounds
- D Gallons

10 All materials are made of —

- F liquid
- G wood
- H smaller parts that cannot be seen
- J parts that do not stick together

11 The energy used in MOST cars comes from —

- A sun
- B coal
- C oil
- D water

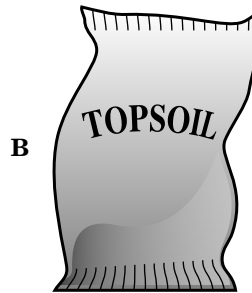
12 A glass jar broke into pieces when it fell on the floor. What is now different about the glass?

- F The material in the glass
- G The color of the glass
- H The total amount of glass
- J The shape of the glass

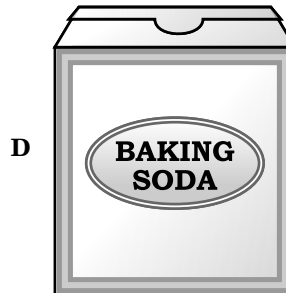
13 Which of these will dissolve in water?



Sand



Rocks



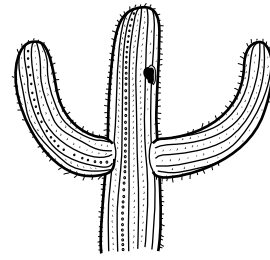
14

<input type="radio"/>	1. clear - no color
	2. feels cold
	3. feels hard
	4. no smell

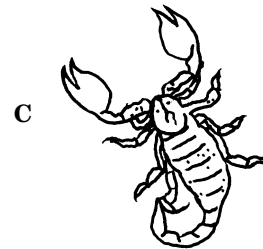
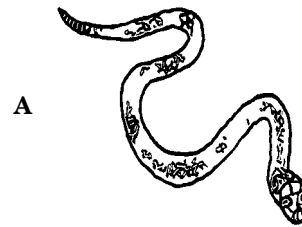
The observations recorded above  
BEST describe —

- F a sugar cube
- G an ice cube
- H a cherry snow cone
- J an ice cream cone

15



Which of these animals MOST likely  
made the hole in the cactus to find  
water?



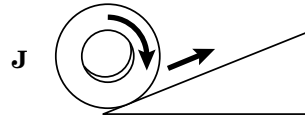
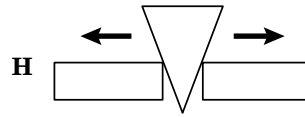
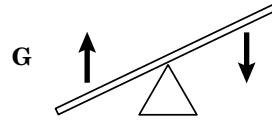
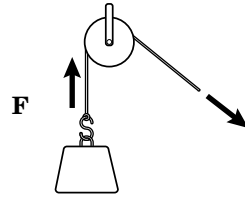
**16** Loggerhead turtles lay their eggs on Virginia beaches and return to the sea. Tiny turtles hatch from the eggs and find their way to the ocean water. This is an example of —

- F a learned behavior
- G an instinct
- H camouflage
- J mimicry

**17** Leaves on some trees change colors from green to yellow and from orange to red during —

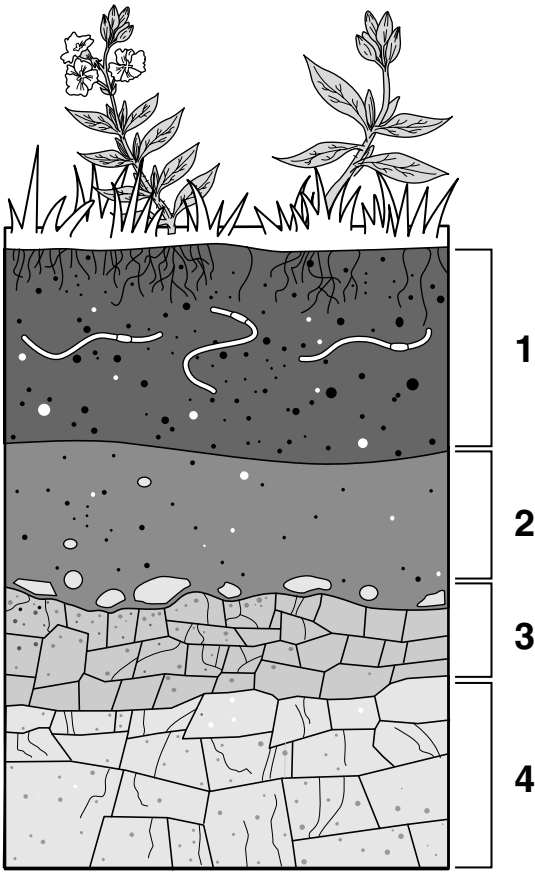
- A autumn
- B spring
- C summer
- D winter

**18** Which of the following pictures shows how a wedge works?





19



Plants are MOST likely to get nutrients from area —

- A 1
- B 2
- C 3
- D 4

20 Which of these do all living things need to stay alive?

- F Soil
- G Water
- H Clothing
- J Wind

21

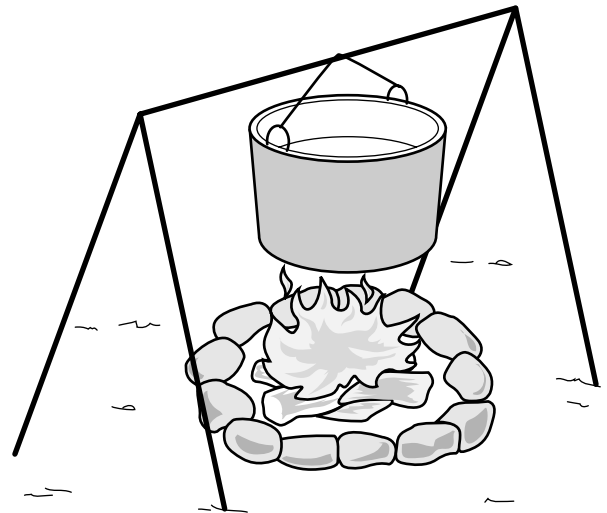
**Cars Counted by Color**

Day	Number of Cars of Each Color			
	Blue	Yellow	Red	Black
Monday	2	1	5	4
Tuesday	3	2	3	5
Wednesday	2	0	3	4

Ramon made this table to show how many cars of each color passed him at the bus stop on three different mornings. If he adds together his numbers from the three days, which color will he find was the MOST common?

- A Blue
- B Yellow
- C Red
- D Black

22



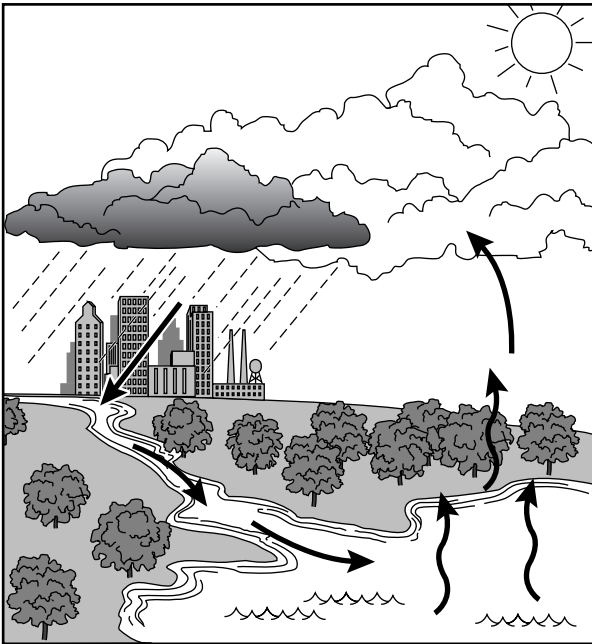
What will happen to the water in the pot if left over the campfire?

- F The water will turn into a solid.
- G The water will turn into a gas.
- H The water will turn into a liquid.
- J The water will turn into ashes.

23 Which of these is NOT a part of soil?

- A Humus
- B Bits of rock
- C Clay
- D Plastic

24



The picture of the water cycle shows how —

- F the sun warms the Earth
- G mountains are formed
- H water from the ocean becomes rain on land
- J ocean tides decrease and increase

25 Which sense organ is used to tell the color of the sky?

- A Nose
- B Ears
- C Eyes
- D Tongue

26 When settlers first came to America, there were large areas of forests. What type of industry developed because of the forests?

- F Lumber
- G Oil
- H Plastic
- J Ranching

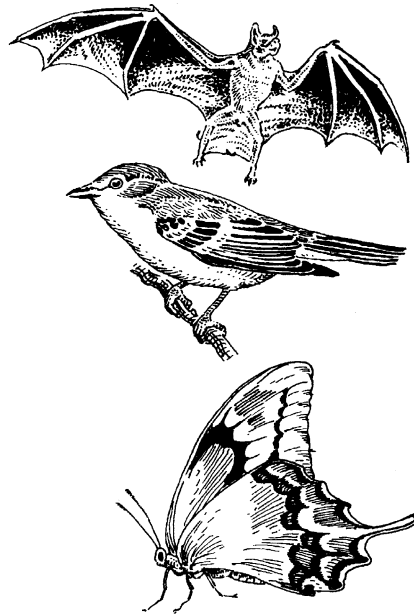
27 What can we do to reduce water pollution?

- A Pour chemicals into drains
- B Use lots of fertilizer
- C Dump trash into lakes
- D Clean up oil spills properly

28 A student dropped a ball to see how it would fall. What kind of motion did she see as the ball fell?

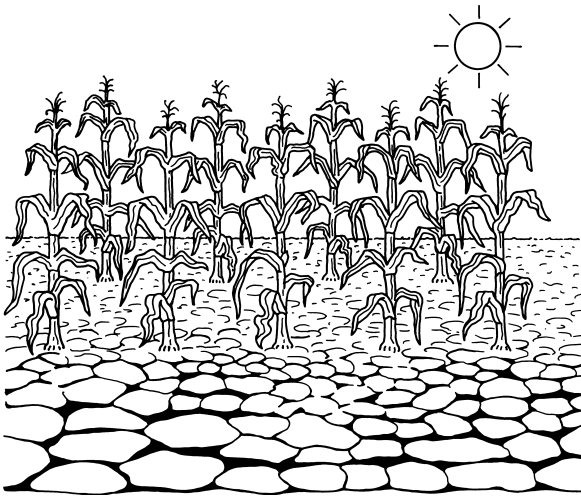
- F Straight
- G Curved
- H Rotating
- J Vibrating

29



Look at the three animals. What are two characteristics that they all have in common?

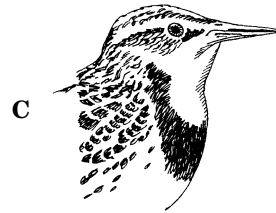
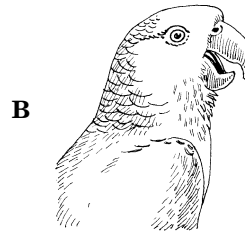
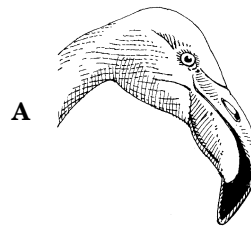
- A Wings and feathers
- B Wings and legs
- C Fur and legs
- D Fur and feathers



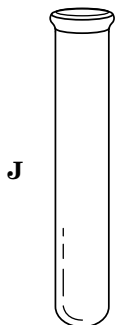
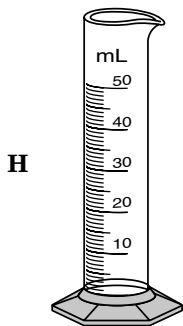
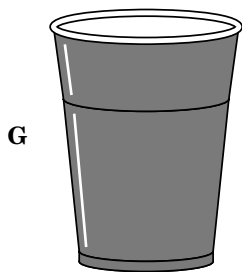
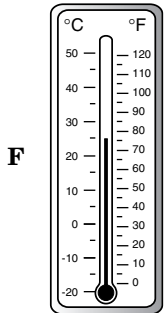
Which of these weather conditions caused the corn field to look like the picture?

- F A flood
- G A drought
- H A snowstorm
- J A tornado

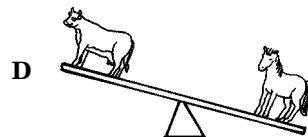
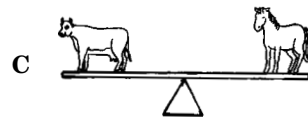
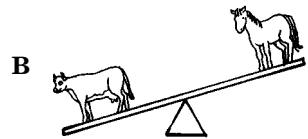
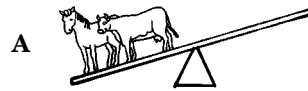
31 Which of these birds has the most triangular beak?

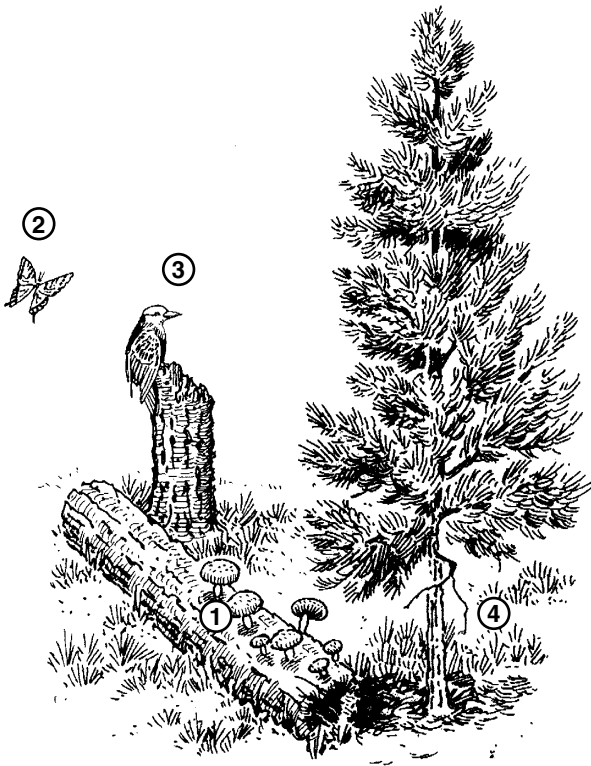


32 A student uses a pan to catch rainwater for watering plants. Which of these would be BEST to use for measuring the amount of rainwater in the pan?



33 Which of these shows that the toy cow is lighter than the toy horse?





Which of these is a decomposer?

- F 1
- G 2
- H 3
- J 4

35 The leaves of a plant —

- A make food and oxygen
- B hold the plant in the ground
- C make fruits and seeds
- D hold up the flowers

36 The last stage in the life cycle of an animal is —

- F having babies
- G growing
- H dying
- J being born

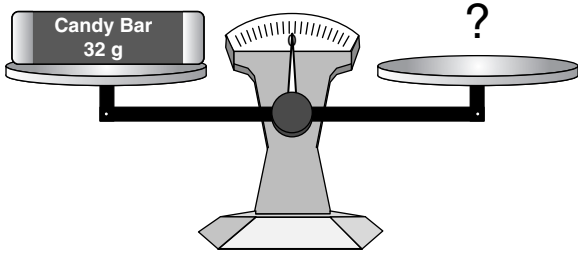
37 Which of these human activities is MOST damaging to the air?

- A Picking fruit from a tree
- B Planting a garden
- C Burning tires
- D Riding a bike

















38 When you sharpen a pencil, it becomes —

- F smaller
- G harder
- H smoother
- J more flexible

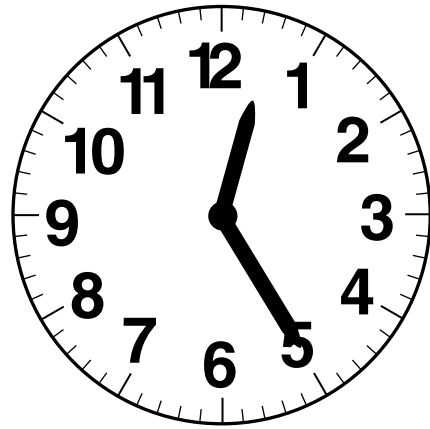
39



Which group of weights has a mass of 32 grams?

- A  
- B   
- C     
- D      
 

40



What is the time shown on the clock?

- F 12:25
- G 12:35
- H 1:25
- J 5:03



### Answer Key-3S02L

<b>Test Sequence Number</b>	<b>Correct Answer</b>	<b>Reporting Category</b>	<b>Reporting Category Description</b>
1	B	015	Scientific Investigation
2	G	015	Scientific Investigation
3	A	018	Earth / Space Systems and Cycles
4	H	017	Life Processes and Living Systems
5	D	016	Force, Motion, Energy, and Matter
6	J	017	Life Processes and Living Systems
7	B	017	Life Processes and Living Systems
8	F	018	Earth / Space Systems and Cycles
9	C	015	Scientific Investigation
10	H	016	Force, Motion, Energy, and Matter
11	C	018	Earth / Space Systems and Cycles
12	J	016	Force, Motion, Energy, and Matter
13	D	016	Force, Motion, Energy, and Matter
14	G	015	Scientific Investigation
15	B	017	Life Processes and Living Systems
16	G	017	Life Processes and Living Systems
17	A	018	Earth / Space Systems and Cycles
18	H	016	Force, Motion, Energy, and Matter
19	A	018	Earth / Space Systems and Cycles
20	G	017	Life Processes and Living Systems
21	D	015	Scientific Investigation
22	G	016	Force, Motion, Energy, and Matter
23	D	018	Earth / Space Systems and Cycles
24	H	018	Earth / Space Systems and Cycles
25	C	015	Scientific Investigation
26	F	017	Life Processes and Living Systems
27	D	018	Earth / Space Systems and Cycles
28	F	016	Force, Motion, Energy, and Matter
29	B	015	Scientific Investigation
30	G	018	Earth / Space Systems and Cycles
31	C	016	Force, Motion, Energy, and Matter
32	H	015	Scientific Investigation
33	D	016	Force, Motion, Energy, and Matter
34	F	017	Life Processes and Living Systems
35	A	017	Life Processes and Living Systems
36	H	017	Life Processes and Living Systems
37	C	018	Earth / Space Systems and Cycles
38	F	016	Force, Motion, Energy, and Matter
39	D	015	Scientific Investigation
40	F	015	Scientific Investigation



### Grade 3 Science, Core 1

If you get this many items correct:	Then your converted scale score is:
0	000
1	123
2	168
3	194
4	214
5	230
6	243
7	255
8	266
9	276
10	284
11	293
12	301
13	308
14	316
15	323
16	330
17	337
18	344
19	350
20	357
21	364
22	370
23	377
24	383
25	390
26	398
<b>27</b>	<b>405</b>
28	413
29	420
30	429
31	438
32	447
33	458
34	469
35	482
36	498
<b>37</b>	<b>517</b>
38	544
39	587
40	600





