

Use the list below to complete the following statements.

a a	0 erosol cans tmosphere plindness	exosphere ionosphere jet stream mesosphere	oxygen ozone skin cancer stratosphere	thermosphere troposphere ultraviolet rays
1.		air that surround		
2.		e atmosphere clo	sest to Earth that c	contains our
3.	The troposphe kilometers.	re extends for ab	out	
4.	troposphere, ir		ow from west to easometimes fly, is o	,
5.	The		is the layer above	the troposphere.
6.	Earth at sea lev	er of the stratospl vel because of the	presence	ame temperature as
7.		e atmosphere by	C	

8.	Ultraviolet rays from the sun can cause
	and
9.	CFCs used in destroy the ozone layer.
10.	The coldest part of the atmosphere is the
11.	Beyond the mesosphere is the, which extends to 500-700 kilometers and is very hot.
12.	Within the thermosphere, the part that contains electrically charged particles is called the
13.	The last layer of the atmosphere extends for thousands of kilometers into space and is called the
14.	Ozone is a gas that contains three atoms of per molecule instead of two atoms, as
	does the gas that we breathe.



*Complete the chart below. Beside each layer of the* **atmosphere***, record the* **distance** *each extends into* **space***, and list the important* **characteristics** *of each.* 

Layer	Distance	Characteristics
1. troposphere		
2. stratosphere		
3. mesosphere		
4. thermosphere		
a. ionosphere		
b. exosphere		

Answer the following using complete sentences.

1. How does ozone differ from the oxygen we breathe?

\_\_\_\_\_

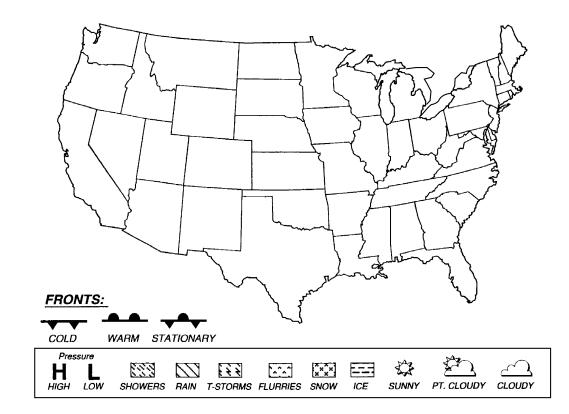
\_\_\_\_\_

- 2. How does ozone smell?
- 3. When can you smell ozone?
- 4. How does the ozone layer protect us?

5. What can be done to stop people from destroying the ozone layer?



*Use data from the newspaper to construct a* **weather map** *for a particular day. Use your knowledge of* **air masses** *to predict the weather for the* **southeast region**.



Use the list below to complete the following statements.

convection current	heat	radiation
counterclockwise	indirect rays	sun
currents direct rays	low-pressure	wind

- 1. Earth gets its heat from the \_\_\_\_\_\_ .
- The process by which the sun's energy reaches Earth in the form of waves is called \_\_\_\_\_\_.
- 3. Light waves are absorbed by Earth and returned to the atmosphere as \_\_\_\_\_\_\_\_\_ .
- 4. A \_\_\_\_\_\_\_ is formed when warm air rises and cold air rushes in to take its place.
- Rays of the sun that hit Earth at a 90° angle are called \_\_\_\_\_\_\_\_.
- Rays that strike Earth at an angle of greater than 90° are called \_\_\_\_\_\_\_.
- 7. \_\_\_\_\_\_ are vertical movements of air.
- 8. Horizontal movements of air are called \_\_\_\_\_\_.

9. Air that is heated is less dense; it rises and forms a

\_\_\_\_\_ area.

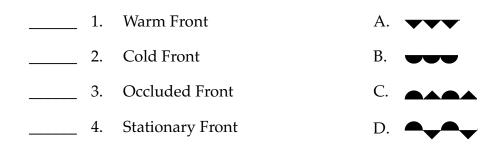
*Use the list below to complete the following statements.* 

	air mass barometer cold front	high- high pressure area low-	occluded stationary warm
1.	Cloudy, rainy weather pressure system.	er is caused by a	
2.	Cool air that is heavy	sinks and creates a	
3.		dry weather accompany pressure area.	a
4.	A	is used to measu	re air pressure.
5.		aving the same amount of a(n)	
6.	A boundary called a different types of air	masses meet.	_ forms when two
7.	After a(n) cool and clear.	front, the	e weather is usually
8.	A(n) but neither moves for	front forms w r a period of time.	hen two fronts meet

- A(n) \_\_\_\_\_\_ front brings rain or snow that lasts for a long period of time.
- 10. When a cold front overtakes and merges with a warm front, a(n)

\_\_\_\_\_ front forms.

*Match the* **front** *with the correct* **symbol***. Write the letter on line provided.* 



### Lab Activity 1: The Earth's Rotation Creates Winds and Currents

Purpose	Materials
Observe the effects of rotation on water.	<ul> <li>bowl</li> <li>water</li> <li>lazy Susan tray or rotating piano stool</li> </ul>

- 1. Place a bowl of water on a lazy Susan tray or a rotating piano stool.
- 2. Gently spin in a counterclockwise direction.
- 3. Let the water become still.
- 4. Rotate in the opposite direction.
- 5. What did you see happen when the water was spun counterclockwise?

6. What did you see happen to the water when it was rotated in the opposite direction?

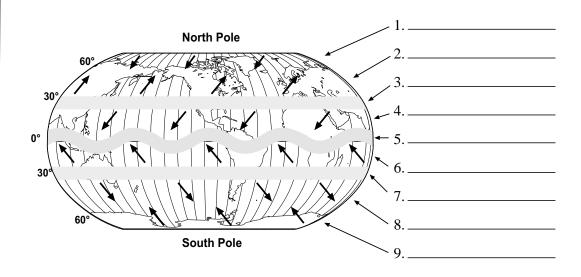
7. How did the water movement change? \_\_\_\_\_

### Lab Activity 2: Water Currents

Purpose	Materials
Observe water currents that result from heating water.	<ul> <li>ice cubes</li> <li>rectangular pan</li> <li>water</li> <li>food coloring</li> <li>Bunsen burner</li> </ul>

- 1. Place ice cubes in the center of a rectangular pan.
- 2. Fill pan with water.
- 3. Put an immersion heater just below the surface of the water on one side of the pan. (A Bunsen burner can be used. Make sure to heat one side of the pan, not the center.)
- 4. Add several drops of food coloring close to the heated side.
- 5. Continue to heat until you can see the movement of the color.
- 6. In what direction does the colored water move?
- 7. Does the clear water move?
- 8. Does the colored water stay at the top?
- 9. What climate zone does the ice represent? \_\_\_\_\_
- 10. What climate zone does the heater represent? \_\_\_\_\_
- 11. Considering what you have observed, in what direction do you think the ocean currents should move?

Label the **major wind systems** on Earth. Write **North**, **South**, **East**, or **West** on each line in the chart to show the direction of the **major air movements**. The arrows indicate the direction of the movement.



	Wind	
Direction of movement for latitudes:	Northern Hemisphere	Southern Hemisphere
60° - 90°		
30° - 60°		
0°- 30°		

Match each definition with the correct term. Write the letter on the line provided.

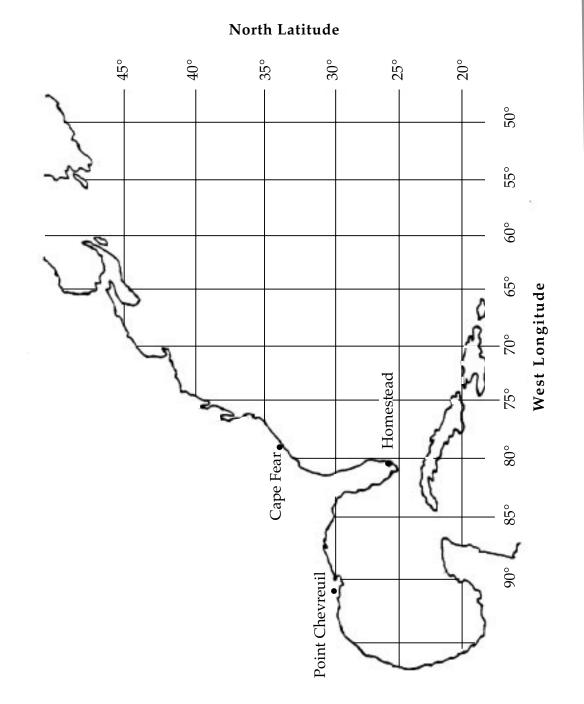
 1.	instrument used to indicate from which direction the wind is coming	А.	anemometer
 2.	instrument used to measure the speed of the wind	B.	doldrums
 3.	breeze formed when the air on land warms and rises and cooler wind from the ocean rushes in to replace it	C.	horse latitudes
 4.	breeze that blows at night when cool air from the land moves out to sea replacing the warmer air found there	D.	land breeze
 5.	system of wind found just north and south of the equator where there is a steady wind flow that early sailors depended on	E.	monsoons
 6.	seasonal winds that bring rainy weather in the summer and dry weather in the winter	F.	polar easterlies
 _ 7.	area around the equator where there is little or no wind	G.	prevailing westerlies
 _ 8.	system of winds found in the areas of Earth where there are large land masses; these winds blow from the west	H.	sea breeze
 9.	narrow band near 30° latitude with very little wind	I.	trade winds
 _ 10.	system of winds that extends from the poles to 65° north and south latitude that blow cold winds from an easterly direction	J.	wind vane

*Use the* **hurricane tracking map** *on the next page to* **plot** *the* **paths** *of hurricanes* **Bonnie** *and* **Andrew***. Then answer the questions below with a short answer.* 

Hurricane Bonnie			Hurricane Andrew		
Date	Position at 6:00 a.m.		Date	Position at 6:00 a.m.	
1998	Latitude	Longitude	1992	Latitude	Longitude
Aug. 22	21.8° N	68.7° W	Sept. 20	20.7° N	60.0° W
23	23.8° N	71.3° W	21	23.9° N	63.3° W
24	25.2° N	72.1° W	22	25.6° N	67.0° W
25	27.8° N	73.8° W	23	25.5° N	72.5° W
26	31.7° N	77.3° W	24	25.4° N	79.3° W
27	34.5° N	77.5° W	25	26.6° N	86.7° W
28	36.2° N	75.1° W	26	29.2° N	91.3° W
29	39.2° N	69.6° W	27	32.1° N	90.5° W
30	44.3° N	57.0° W	28	35.4° N	84.0° W

- 1. Where did Bonnie hit land? \_\_\_\_\_
- 2. Where did Andrew hit land? \_\_\_\_\_
- 3. In which general directions do hurricanes move?
- 4. Where do most of the hurricanes form that affect Florida?
- 5. Which areas of the United States are most affected by hurricanes?
- 6. What causes the most damage from a hurricane, wind or water?

*Use the information on the previous page to* **plot** *the* **paths** *of* **hurricanes Bonnie** *and* **Andrew** *on the map below.* 





*Use the list below to complete the following statements. One or more terms will be used more than once.* 

)
l depression
l storm
oout

1. A storm formed when two fronts meet that causes steady rainfall

lasting for hours is called a \_\_\_\_\_\_ .

2. A snowstorm with strong winds is called a

 Thunderstorms are caused by the formation of \_\_\_\_\_\_ clouds.

4. A sudden discharge of electricity from the clouds is called

5. \_\_\_\_\_\_ is the sound made by lightning.

 Low-pressure areas that contain warm air rising in a counterclockwise circular motion are

called \_\_\_\_\_\_ .

\_\_\_\_\_ ·

High-pressure areas that have cool, dry air moving downward in a clockwise motion are called \_\_\_\_\_\_\_\_.

8.	High- and low-pressure systems move in
	directions in the Southern Hemisphere.

- A large powerful cyclone that begins as a low-pressure system over the ocean in summer or early fall is called a \_\_\_\_\_\_\_\_\_.
- 10. A low-pressure system with winds less than 35 mph is called a(n)

12. A hurricane is formed when sustained winds reach

\_\_\_\_\_ mph. Hurricane winds can reach speeds

of over \_\_\_\_\_ mph.

\_\_\_\_ •

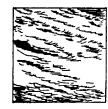
- 13. A violent, funnel-shaped windstorm with winds that reach 300 mph is a \_\_\_\_\_\_\_\_\_ .
- 14. A \_\_\_\_\_\_\_\_ is a tornado that forms over the ocean.
- 15. The path of a \_\_\_\_\_\_ is smaller than that of a \_\_\_\_\_\_\_ , but because of the high winds it can do more damage.

Prac	tice
Ansu	per the following using complete sentences.
1.	What danger exists in thunderstorms?
2.	What should you do if you are caught outside during a
	thunderstorm?
3.	What are three precautions to take in the event of a hurricane?
4.	What is the difference between a hurricane watch and a hurricane warning?
5.	Where should you seek shelter indoors during a tornado?
	Ansu 1. 2. 3.

*Match each description with the correct* **type of cloud***. Write the letter on the line provided.* 

 1.	thin, feathery clouds found at high altitudes	A. cirrus
 2.	clouds that contain rain	B. cumulonimbus
 3.	gray, smooth, layered clouds found low in the sky	C. cumulus
 4.	clouds that cause thunderstorms	D. nimbostratus
 5.	puffy clouds with flat bottoms found at middle altitudes	E. nimbus
 6.	low-lying, black, layered clouds that bring long periods of rain	F. stratus

*Label the three basic* **types of clouds**:



7.\_\_\_\_\_



8. .



9.\_\_\_\_\_

*Complete the chart below for* **five** *consecutive days.* 

#### Description of clouds Type of cloud Weather Date and Direction observed (puffy? wispy? dark? flat? etc.) conditions of wind time of day observed at the time north east south west north east south west north east south west north east south west north east south west

## **Cloud Observation Chart**

Match each definition with the correct term. Write the letter on the line provided.

 1.	moisture that falls to Earth as rain, hail, sleet, or snow	A.	cloud
 2.	condensation on particles of dust, smoke, or salt	B.	drizzle or mist
 3.	temperature of the air below the clouds is above 32° F	C.	freezing rain
 4.	six-pointed crystals of ice that fall when the temperature of both the clouds and the land is below	D.	hailstones
	freezing	E.	precipitation
 5.	rain that falls in very tiny droplets	F.	rain
 6.	rain that freezes after it hits the ground	1.	14111
 7.	snow melts and freezes again on its way down	G.	sleet
 8.	the most damaging form of precipitation	H.	snowflakes

Write **True** if the statement is correct. Write **False** if the statement is not correct.

1. Water droplets must condense on particles such as dust or smoke in order to form clouds. 2. Precipitation forms when water droplets become so heavy that they can no longer stay suspended in the air. Snow is the most common type of precipitation. 3. 4. Rain that forms very large droplets is called drizzle or mist. 5. In order for snowflakes to form, both the temperature of the clouds and the temperature of the air must be below freezing. 6. Snowflakes can have four, five, or six points. 7. Sleet and freezing rain are the same thing. 8. Sleet only falls in the winter. 9. The form of precipitation that causes the most damage is sleet. 10. Hailstones are formed in cumulonimbus clouds. 11. Hailstones are usually the size of golf balls. 12. Hailstones move up and down in the clouds several times, forming new layers of ice until they are finally heavy enough to fall. 13. Snow that melts on its way down and refreezes is called sleet. 14. The type of precipitation that falls is only determined by the temperature on the ground where it falls.

Answer the following using complete sentences.

- 1. What three factors influence the climate of an area?
- 2. Why are areas near the equator warmer? \_\_\_\_\_
- 3. How do mountains near coastal regions help in the formation of deserts?

4. Describe the temperature and precipitation in each of the three major climate zones. Fill in the chart below.

Zone	Temperature	Precipitation

5	<ul> <li>Describe the following climate types.</li> <li>Desert:</li></ul>
	Marine climate:
	Continental climate:

*Use the list below to write the correct* **atmosphere** *and* **climate** *term for each definition on the line provided. One or more terms will be used more than once.* 

atmosphere climate continental climate desert exosphere ionosphere	m m Ož	t stream arine climate esosphere zone olar zone	stratosphere temperate zone thermosphere troposphere weather
	1.	type of climate huge land mass	found where there are ses
	2.	<b>7</b>	found when an area is arge body of water
	3.	5	nges in temperature, , and air pressure
	4.	the blanket of a	ir surrounding Earth
	5.	*	hermosphere that cally charged particles
	6.		lerate climate with 11 changes located d 60° latitude
	7.	coldest layer of above the strate	the atmosphere, just osphere
	8.	dry areas that ro of rainfall per y	eceive less than 25 cm ear
	9.		at extends from the th and south latitude cold climate

10. the weather of an area over a long period of time 11. the layer of the atmosphere above the mesosphere where the air is very thin and hot 12. type of oxygen with three oxygen atoms  $(O_3)$  found in the upper areas of the stratosphere 13. the layer of air closest to Earth 14. the upper part of the thermosphere 15. the lowest layer of the atmosphere that contains most of our weather the layer of Earth's atmosphere that 16. contains ozone narrow band of winds that blow from 17. west to east just above the troposphere

Use the list below to write the correct **solar radiation** and **air mass** term for each definition on the line provided.

air masses barometer cold front conduction convection convection current	front high- indir	t rays	occluded front radiation stationary front warm front wind
	1.	front that forms wh masses face each ot moves	
	2.	process by which th Earth in the form of	
	3.	front that forms wh overtakes and merg front	
	4.	system that brings of the stormy weath	
	5.	rays of the sun that than 90°; they produ	0
	6.	system that brings o dry weather	cool, clear skies and
	7.	the boundary formed different masses of a	
	8.	rays of the sun that angle; they create th of heat	

9.	vertical movements of air or water caused by the uneven heating of Earth
10.	vertical movement of air or water caused by differences in temperature
11.	front formed when a mass of cold air meets a mass of warm air and moves beneath it
12.	an instrument used to measure air pressure
13.	large bodies of air having the same temperature and amount of moisture
14.	front that forms when a mass of warm air meets a mass of cold air and moves over it
15.	horizontal movements of air caused by the uneven heating of Earth
16.	direct transfer of heat energy from one substance to another
17.	transfer of heat energy by moving air or fluid

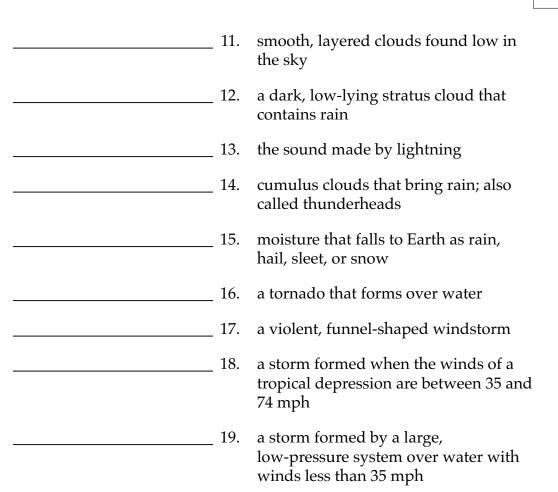
*Use the list below to write the correct* **wind** *and* **current** *term for each definition on the line provided.* 

anemometer doldrums horse latitudes land breeze	-	ons asterlies ing westerlies	sea breeze trade winds wind vane
	1.	an instrument us speed	ed to measure wind
	2.	area at about 30° latitude where th	north and south ere is very little wir
	3.		he equator where a p and there is very
	4.	system of winds from the poles	that blows cold air
	5.	cool air that move during the day	es from sea to land
	6.	cool air blowing f night	from land to sea at
	7.	south of the equa	found just north and tor that blows towa the northeast and
			inland during rainy weather and sea in winter bringin
	9.	an instrument tha direction the win	at tells from which d is coming
	10.	5	ned over large land com the west to the



*Use the list below to write the correct* **storm** *and* **precipitation** *term for each definition on the line provided.* 

anticyclone blizzard cirrus cloud cumulonimbus cumulus cyclone	nimb	ning postratus pus pitation	stratus thunder tornado tropical depression tropical storm waterspout
	1.		erful low-pressure storm clone with sustained nph or more
	2.	puffy, white	clouds with flat bottoms
	3.	high-pressur moving cloc	e system with winds <wise< th=""></wise<>
	4.	a cloud that	causes rain to fall
	5.	a sudden dis clouds	charge of electricity from
	6.	a severe snov	wstorm with high winds
	7.	a term used moisture it c	when the air has all the an hold
	8.	tiny droplets the air	of water suspended in
	9.	very high, th of ice crystal	in, feathery clouds made s
	10.	-	re system with winds counterclockwise



*Circle the letter of the* **atmosphere** *and* **climate** *term that correctly completes each statement below.* 

- 1. A dry area that receives less than 25 cm of rainfall per year is a(n) \_\_\_\_\_\_ .
  - a. equinox
  - b. ozone
  - c. polar zone
  - d. desert

2. The upper part of the thermosphere is called the \_\_\_\_\_\_ .

- a. ionosphere
- b. jet stream
- c. exosphere
- d. mesosphere
- 3. The coldest layer of the atmosphere, just above the stratosphere is called the \_\_\_\_\_\_\_\_\_.
  - a. exosphere
  - b. ozone
  - c. polar zone
  - d. mesosphere
- 4. The \_\_\_\_\_\_ is the lower part of the thermosphere that contains electrically charged particles called ions.
  - a. ozone
  - b. mesosphere
  - c. exosphere
  - d. ionosphere
- 5. The \_\_\_\_\_\_ is a layer of Earth's atmosphere above the troposphere; it contains the ozone layer.
  - a. thermosphere
  - b. temperate zone
  - c. stratosphere
  - d. tropical zone

- 6. The layer of the atmosphere above the mesosphere where the air is very thin and hot is called the \_\_\_\_\_\_\_\_.
  - a. tropical zone
  - b. thermosphere
  - c. ionosphere
  - d. troposphere
- - a. temperate zones
  - b. tropical zones
  - c. weather
  - d. marine climates
- 8. The \_\_\_\_\_\_ is mixture of gases surrounding Earth.
  - a. equinox
  - b. polar zone
  - c. tropical zone
  - d. atmosphere
- 9. The \_\_\_\_\_\_ is a narrow layer of strong winds that blow from west to east just above the troposphere.
  - a. mesosphere
  - b. jet stream
  - c. polar zone
  - d. ozone
- 10. The weather of an area over a long period of time is called the \_\_\_\_\_\_\_\_.
  - a. climate
  - b. seasons
  - c. solstice
  - d. tropical
- - a. seasons
  - b. continental climate
  - c. tropical zone
  - d. marine climate

- - a. continental climate
  - b. marine climate
  - c. tropical zone
  - d. seasons
- 13. The zone of moderate climate with distinct seasonal changes located between 30° and 60° latitude is a \_\_\_\_\_\_\_\_\_.
  - a. polar zone
  - b. temperate zone
  - c. tropical zone
  - d. solstice
- 14. The type of oxygen with three oxygen atoms  $(O_3)$  found in the upper areas of the stratosphere is called \_\_\_\_\_\_ .
  - a. ozone
  - b. seasons
  - c. climate
  - d. solstice
- 15. The \_\_\_\_\_\_ is the layer of air closest to Earth.
  - a. troposphere
  - b. temperate
  - c. thermosphere
  - d. mesosphere
- 16. The area of Earth that extends from the poles to 60° north and south latitude and has very cold climate is called the \_\_\_\_\_\_\_\_\_.
  - a. temperate zone
  - b. stratosphere
  - c. tropical zone
  - d. polar zone
- 17. The lowest layer of the atmosphere that contains most of our weather is called the \_\_\_\_\_\_\_\_.
  - a. stratosphere
  - b. polar zone
  - c. troposphere
  - d. temperate zone

*Circle the letter next to the* **solar radiation** *and* **air mass** *term that correctly completes each statement below.* 

- 1. An instrument used to measure air pressure is a \_\_\_\_\_
  - a. barometer
  - b. convection current
  - c. direct ray
  - d. current
- - a. current
  - b. front
  - c. direct ray
  - d. convection current

3. Rays of the sun that hit Earth at a 90° angle are called \_\_\_\_\_

- a. fronts
- b. indirect rays
- c. high-pressure systems
- d. direct rays
- 4. A system that brings cool, clear skies and dry weather is a(n) \_\_\_\_\_\_\_\_ .
  - a. low-pressure system
  - b. indirect ray
  - c. high-pressure system
  - d. stationary front
- 5. A system that brings cloudy, rainy, and often stormy weather is a(n) \_\_\_\_\_\_\_\_\_.
  - a. stationary front
  - b. occluded front
  - c. convection current
  - d. low-pressure system

- - a. wind
  - b. warm front
  - c. radiation
  - d. stationary front
- - a. currents
  - b. convection currents
  - c. warm fronts
  - d. air masses
- - a. cold front
  - b. current
  - c. front
  - d. direct ray
- - a. fronts
  - b. direct rays
  - c. currents
  - d. indirect rays
- 10. The boundary formed when two different masses of air meet is a(n) \_\_\_\_\_\_ .
  - a. occluded front
  - b. low-pressure system
  - c. high-pressure system
  - d. front
- - a. radiation
  - b. low-pressure systems
  - c. occluded fronts
  - d. indirect rays

- - a. occluded front
  - b. stationary front
  - c. low-pressure system
  - d. warm front
- - a. warm front
  - b. high-pressure system
  - c. stationary front
  - d. occluded front
- - a. stationary front
  - b. radiation
  - c. occluded front
  - d. wind
- - a. occluded front
  - b. warm front
  - c. stationary front
  - d. low-pressure system

16. The transfer of heat energy by moving air or fluid is \_\_\_\_\_\_ .

- a. convection
- b. current
- c. conduction
- d. radiation
- 17. The direct transfer of heat energy from one substance to another is \_\_\_\_\_\_\_ .
  - a. radiation
  - b. conduction
  - c. current
  - d. convection



*Circle the letter next to the* **wind** *and* **current** *term that correctly completes each statement below.* 

- 1. A system of winds that blows cold air from the poles is called \_\_\_\_\_\_.
  - a. sea breezes
  - b. prevailing westerlies
  - c. polar easterlies
  - d. horse latitudes

2. Cool air blowing from land to sea at night is a \_\_\_\_\_\_ .

- a. monsoon
- b. trade wind
- c. land breeze
- d. sea breeze
- 3. The area around the equator where air moves straight up and there is very little wind is called \_\_\_\_\_\_\_\_ .
  - a. monsoons
  - b. doldrums
  - c. land breezes
  - d. horse latitudes

4. An instrument used to measure wind speed is a(n) \_\_\_\_\_\_ .

- a. sea breeze
- b. land breeze
- c. anemometer
- d. wind vane
- - a. horse latitudes
  - b. monsoons
  - c. prevailing westerlies
  - d. trade winds

- - a. sea breezes
  - b. monsoons
  - c. polar easterlies
  - d. trade winds
- - a. anemometer
  - b. land breeze
  - c. monsoon
  - d. wind vane
- 8. A wind system formed over large land areas that blows from the west to the east is the \_\_\_\_\_\_\_\_\_ .
  - a. polar easterlies
  - b. monsoons
  - c. trade winds
  - d. prevailing westerlies
- 9. Cool air that moves from sea to land during the day is
  - a\_\_\_\_\_ .
  - a. sea breeze
  - b. land breeze
  - c. doldrum
  - d. trade wind
- - a. trade winds
  - b. polar easterlies
  - c. doldrums
  - d. prevailing westerlies



*Circle the letter next to the* **storm** *and* **precipitation** *term that correctly completes each statement below.* 

1. Tiny droplets of water suspended in the air are \_\_\_\_\_\_.

- a. clouds
- b. blizzards
- c. hurricanes
- d. cyclones
- 2. A high-pressure system with winds moving clockwise is a(n) \_\_\_\_\_\_ .
  - a. anticyclone
  - b. cyclone
  - c. tornado
  - d. hurricane
- 3. \_\_\_\_\_ clouds are clouds that bring rain—they are also called thunderheads.
  - a. Cumulus
  - b. Cumulonimbus
  - c. Hurricanes
  - d. Cyclones
- 4. Moisture that falls to Earth as rain, hail, sleet, or snow

is \_\_\_\_\_ .

- a. saturated
- b. thunder
- c. stratus
- d. precipitation
- 5. A sudden discharge of electricity from clouds is called \_\_\_\_\_\_\_\_ .
  - a. thunder
  - b. precipitation
  - c. waterspout
  - d. lightning

6.	A severe snowstorm with high winds is a
	a. tornado
	b. blizzard
	c. cloud d. tropical depression
	u. hopical depression
7.	Any type of low-pressure system with winds moving in a counterclockwise direction is a
	a. hurricane
	b. tropical storm
	c. tropical depression
	d. cyclone
8.	Very high, thin, feathery clouds made of ice crystals are
	a. cumulus
	b. stratus
	c. cirrus
	d. nimbostratus
9.	Puffy, white clouds with flat bottoms are
	a. cumulus
	b. stratus
	c. cirrus
	d. nimbostratus
10.	A large, powerful low-pressure storm system is a

- a. blizzard
- b. cyclone
- c. hurricane
- d. tornado
- 11. A storm formed when the winds of a tropical depression are between 35 and 74 mph is a \_\_\_\_\_\_\_\_ .
  - a. tornado
  - b. tropical storm
  - c. blizzard
  - d. cyclone

12. The sound made by lightning is \_\_\_\_\_\_ . a. cyclone b. tornado c. thunder d. nimbus 13. A dark, low-lying stratus cloud that contains rain is called \_\_\_\_\_\_ . a. nimbostratus b. precipitation c. nimbus d. stratus 14. Smooth, layered clouds found low in the sky are called \_\_\_\_\_\_ . a. tornados b. nimbus c. stratus d. cumulus 15. A cloud that causes rain to fall is called \_\_\_\_\_ a. precipitation b. stratus c. cirrus d. nimbus 16. A tornado that forms over water is a \_\_\_\_\_ \_\_ . a. tropical depression b. blizzard c. cyclone d. waterspout 17. A term used when the air has all the moisture it can hold is \_\_\_\_\_ . a. stratus b. tornado c. thunder d. saturated

- 18. A storm formed by a large, low-pressure system over water with winds less than 35 mph is a \_\_\_\_\_\_\_\_ .
  - a. tropical storm
  - b. blizzard
  - c. tropical depression
  - d. tornado

19. A violent, funnel-shaped windstorm is a \_\_\_\_\_\_.

- a. hurricane
- b. tropical storm
- c. tornado
- d. cyclone