

Weather



How do scientists describe and predict weather?

Before You Read

Before you read the chapter, think about what you know about weather. Record your thoughts in the first column. Pair with a partner, and discuss his or her thoughts. Write those thoughts in the second column. Then record what you both would like to share with the class in the third column.

Think	Pair	Share

Chapter Vocabulary

Lesson 1	Lesson 2	Lesson 3
<p>NEW weather air pressure humidity relative humidity dew point precipitation water cycle</p> <p>REVIEW variable kinetic energy</p>	<p>NEW low-pressure system high-pressure system air mass front tornado hurricane blizzard</p> <p>ACADEMIC dominate</p>	<p>NEW surface report upper-air report Doppler radar isobar computer model</p>

Lesson 1 Describing Weather

Scan Lesson 1. Read the lesson titles and bold words. Look at the pictures. Identify three facts that you discovered about weather. Write these facts in your Science Journal.

Main Idea

What is weather?

I found this on page _____.

Weather Variables

I found this on page _____.

I found this on page _____.

I found this on page _____.

I found this on page _____.


I found this on page _____.

I found this on page _____.

Details

 **Define** weather.

Weather: _____

 **Describe** these variables of weather.

Variable	Description	How It Is Measured
		thermometer; measured in °C or °F
		barometer; measured in millibars (mb)
		anemometer; measured in mph or km/h
		measured in g/m ³

Examine which air temperature can hold the greater amount of water vapor. Indicate it by using < or >.

warm air cool air

Explain what a relative humidity of 75 percent indicates.

Lesson 1 | Describing Weather (continued)

Main Idea

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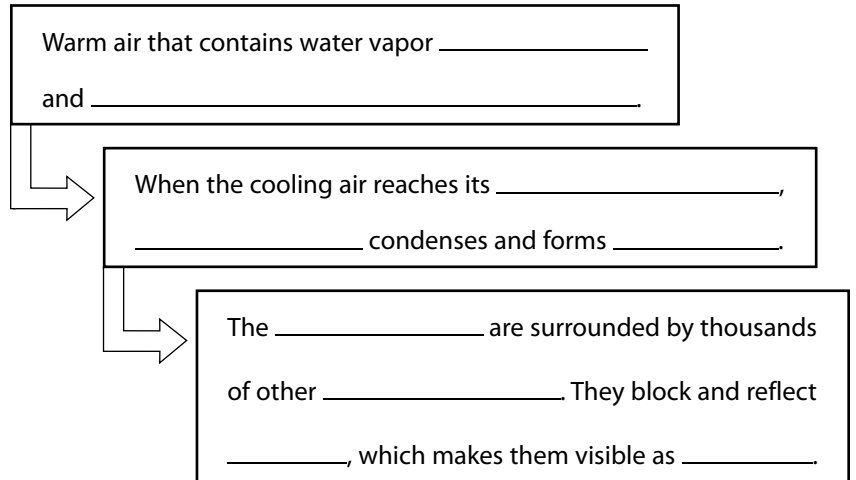
I found this on page _____.

Details

Identify the events that must occur in order for the dew point to be reached.

1. Air temperature _____.
2. The amount of moisture in the air _____.

Sequence the steps in cloud formation.



Classify clouds. Describe the appearance of each type of cloud, and identify the altitude at which it is found.

Type of Cloud	Appearance	Altitude
Stratus		
Cumulus		
Cirrus		

Complete the sentence frame to describe fog.

Fog is a suspension of  close to Earth's surface.

Lesson 1 | Describing Weather (continued)

Main Idea

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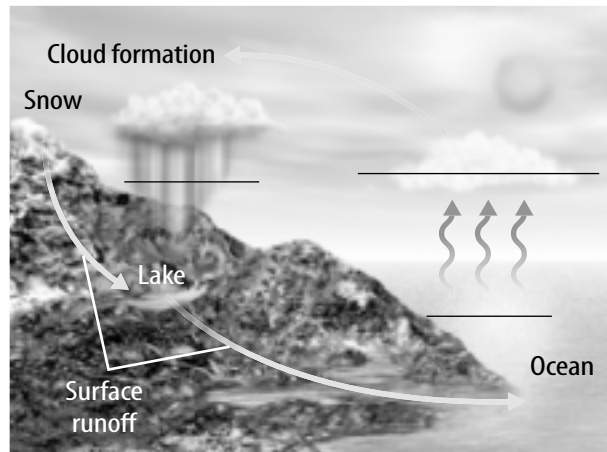
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Details

Identify 4 types of precipitation. Circle the types that reach Earth's surface as frozen water.

- 1. _____
- 2. _____
- 3. _____
- 4. _____

Label the water cycle in the illustration below, and then explain how the water cycle relates to weather.



Connect It A greenhouse owner determines that the plants in the greenhouse need a higher humidity level. How could the owner address this problem?
