

**Key Concept Builder** 

**LESSON 1**

***Describing Weather***

**Key Concept** What is weather?

**Directions:** Put a check mark in the correct column to answer the question about weather. Then explain each answer.

Does this fit the definition of weather?	Yes	No	Why or why not?
1. It has been raining where you live for the past hour.			
2. The average temperature in the summer is 42°C.			
3. The temperature decreases 5°C in one hour and then decreases another 3°C in the next hour.			
4. The day began sunny, but now there are plenty of clouds.			
5. The region gets an average of 2.5 cm of rain each year.			
6. You want to go on a bike ride, but you decide to go outside to check for dark clouds.			
7. Heavy rainstorms are predicted for the next two hours, after which the sky should clear.			
8. Ice formations are present across the region throughout the year.			
9. Plants that require high amounts of moisture year-round grow in the area.			
10. The clouds seem to be moving quickly, and the wind has started to blow harder.			
11. The day began sunny, but now you wish you had an umbrella.			

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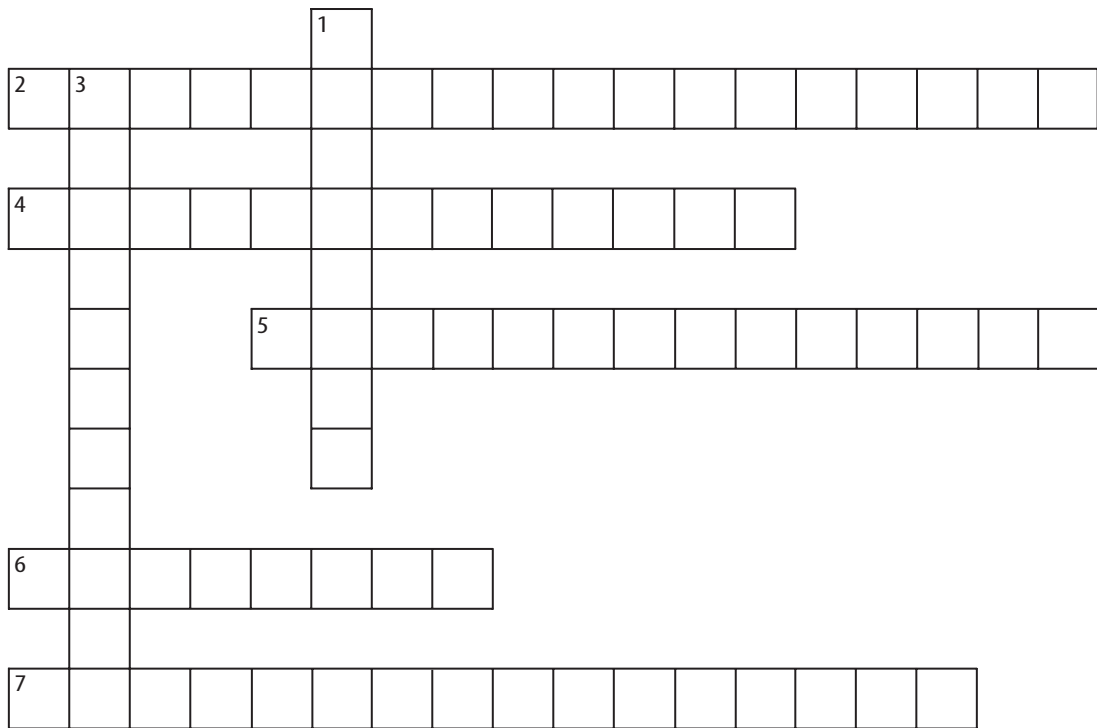
**LESSON 1**

**Describing Weather**

**Key Concept** What variables are used to describe weather?

**Directions:** Use the clues and the terms listed below to complete the puzzle.

- |                     |                        |                            |                  |
|---------------------|------------------------|----------------------------|------------------|
| <b>air pressure</b> | <b>air temperature</b> | <b>barometric pressure</b> | <b>dew point</b> |
| <b>humidity</b>     | <b>precipitation</b>   | <b>relative humidity</b>   |                  |



**Clues**

**Across**

- 2.** another term for air pressure
- 4.** when water, in liquid or solid form, falls from the atmosphere
- 5.** measure of the average kinetic energy of molecules in the air
- 6.** amount of water vapor in the air
- 7.** amount of water vapor in the air relative to the maximum amount of water vapor the air can contain at that temperature

**Down**

- 1.** temperature at which air becomes fully saturated
- 3.** pressure that a column of air exerts on the air or surface below it

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**LESSON 1**

***Describing Weather***

**Key Concept** What variables are used to describe weather?

**Directions:** Answer each question or respond to each statement in the space provided.

<b>Variable</b>	<b>Definition</b>	<b>How is the variable measured?</b>
Air temperature	<b>1.</b>	<b>2.</b>
Air pressure	<b>3.</b>	<b>4.</b>
Wind	<b>5.</b>	<b>6.</b>
Humidity	<b>7.</b>	<b>8.</b>
Relative humidity	<b>9.</b>	<b>10.</b>
Dew point	<b>11.</b>	<b>12.</b>
Clouds and fog	<b>13.</b>	<b>14.</b>
Precipitation	<b>15.</b>	<b>16.</b>

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**Key Concept Builder** **LESSON 1*****Describing Weather*****Key Concept** How is weather related to the water cycle?**Directions:** *On the line before each statement, write T if the statement is true and F if the statement is false.*

- \_\_\_\_\_ 1. Precipitation, condensation, and evaporation are important to the water cycle.
- \_\_\_\_\_ 2. The water cycle is a natural process.
- \_\_\_\_\_ 3. In the water cycle, water is constantly added to the atmosphere, where it builds up over time.
- \_\_\_\_\_ 4. Most water enters the atmosphere through surface runoff.
- \_\_\_\_\_ 5. Water vapor warms as it rises in the atmosphere.
- \_\_\_\_\_ 6. Water vapor that evaporates eventually condenses.
- \_\_\_\_\_ 7. Clouds form from liquid water and ice.
- \_\_\_\_\_ 8. Evaporation occurs when water falls from clouds.
- \_\_\_\_\_ 9. Water enters the atmosphere when it condenses.
- \_\_\_\_\_ 10. Thermal energy causes water at the ocean's surface to evaporate.