## The Life Cycle of a Snowman

Michael Stahl



There are so many things to enjoy during the season of winter. As the temperature drops, just about everything seems to change. People put away their shorts and dresses and replace them with long pants and sweaters. The sports on television change from baseball and soccer to hockey and football. There are a few special holidays and boys and girls get to enjoy their longest vacation during the school year. And, of course, there is snow! A winter's snow means it is possible to go outside for sledding, ice skating and, one of the most fun things to do, making a snowman. People of any age can make a snowman, but it would not be possible without water, water's cycle, and water's three states of liquid, solid and gas.

Before anybody can begin to even think of making a snowman in the freezing cold temperatures of winter, water, in its liquid form, has to actually warm up. Water is made up of the elements hydrogen and oxygen and it covers two-thirds of planet Earth. Most of the water on Earth makes the oceans, but water also makes streams, lakes, ponds and rivers possible. The sun gets the water cycle going. It warms the planet's water supply, causing a certain amount of it, depending on the height of the temperature, to evaporate. When water evaporates, it becomes a gas called water vapor. Though people cannot see it, evaporated water as a gas rises through the air into the atmosphere to form clouds. Clouds are created when a large amount of water vapor begins to cool as it rises through the air. Clouds can grow bigger when they come into contact with more water vapor as well as other clouds.

As clouds get larger, they become unstable. They cannot continue to be so big without something changing, so precipitation must happen. Precipitation is when the hydrogen and oxygen of the water vapor in clouds become so closely packed together that it falls back to Earth in the form of water. Rain is the type of precipitation that happens most often, but, when the

temperature in the air is particularly cold, the water falling down to Earth chills and becomes snow. Snow and ice are examples of water being in its solid state. Precipitation can also include hail and sleet. Hail is precipitation as pieces of ice formed in cloud layers that are below freezing levels. Sleet is when the water is somewhere in between rain and snow. If the temperature is cold enough and if clouds overhead are big and unstable enough, snow will fall to the ground. If the snow starts to accumulate on the ground, then one can possibly make a snowman.

A person or group of people needs a lot of snow to make a snowman. They will need to pack up enough of that snow to make three tremendous balls, one for the base or the legs, another for the middle part of the body, and one, usually smaller than the others, for the head. It's best to decorate a snowman with a hat, a scarf, and some eyes and a mouth made of coal, or other objects.

Snowmen are fun while they last, but the Earth's water cycle has to continue on. Eventually, no matter how much a person might wish for it not to be the case, the snowman will warm up from the sun and melt, turning back into water and being sopped up by the ground. However, over time, that water will only evaporate back into the air to form more clouds that will make more snow for more snowmen.

ReadWorks	Questions: The Life Cycle of a Snowman
Name: Date:	:
1. How many states of water are there?	
<ul><li>A one</li><li>B two</li><li>C three</li><li>D four</li></ul>	
2. The sequence of the water cycle is described in the pass sun warms the planet's water supply?	sage. What happens after the
<ul> <li>A Water evaporates and becomes a gas called water</li> <li>B Water vapor rises through the air into the atmosp</li> <li>C Clouds come into contact with more water vapor a</li> <li>D Large clouds become unstable and cause precipital</li> </ul>	here and cools. and grow larger.
3. Cool air is needed to form clouds. What evidence from t conclusion?	he passage supports this
A Clouds grow larger as they come into contact with B Water vapor cools as it rises through the air, whice C As clouds get bigger, they become unstable. This D When water evaporates, it becomes a gas called water evaporates.	ch creates clouds. causes precipitation.
1 Dead the following sentences: "Pain is the type of precin	nitation that hannens most

**4**. Read the following sentences: "Rain is the type of precipitation that happens most often, but, when the temperature in the air is particularly cold, the water falling down to Earth chills and becomes snow."

Which of the following conclusions is supported by the passage?

- **A** The air is usually too cold for snow to form.
- **B** It hails more often than it snows or sleets.
- **C** The air is usually too warm for snow to form.
- **D** It rains most often because liquid is water's natural state.
- **5**. What is this passage mostly about?
  - **A** precipitation
  - **B** snowmen
  - C water vapor
  - **D** the water cycle

**6**. Read the following sentences: "Snowmen are fun while they last, but the Earth's water cycle has to continue on. **Eventually**, no matter how much a person might wish for it not to be the case, the snowman will warm up from the sun and melt, turning back into water and being sopped up by the ground."

As used in this sentence, what does "eventually" most nearly mean?

- A in the end
- **B** in the beginning
- **C** in the middle
- **D** for a long time
- **7.** Choose the answer that best completes the sentence below.

When water evaporates it becomes a gas called water vapor. \_\_\_\_\_ it rises through the air and cools to form clouds.

- A Like
- **B** So
- **C** But
- **D** Then
- **8**. Name four different kinds of precipitation.

P. Describe how precipitation is caused.	
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IO. Explain how the water cycle continually repeats itself. Use information from the bassage to support your answer.	

## **Teacher Guide & Answers**

Passage Reading Level: Lexile 1110

- 1. How many states of water are there?
  - **A** one
  - **B** two
  - C three
  - **D** four
- 2. The sequence of the water cycle is described in the passage. What happens after the sun warms the planet's water supply?
  - A Water evaporates and becomes a gas called water vapor.
  - **B** Water vapor rises through the air into the atmosphere and cools.
  - **C** Clouds come into contact with more water vapor and grow larger.
  - **D** Large clouds become unstable and cause precipitation.
- 3. Cool air is needed to form clouds. What evidence from the passage supports this conclusion?
  - **A** Clouds grow larger as they come into contact with other clouds.
  - B Water vapor cools as it rises through the air, which creates clouds.
  - **C** As clouds get bigger, they become unstable. This causes precipitation.
  - **D** When water evaporates, it becomes a gas called water vapor.
- 4. Read the following sentences: "Rain is the type of precipitation that happens most often, but, when the temperature in the air is particularly cold, the water falling down to Earth chills and becomes snow."

Which of the following conclusions is supported by the passage?

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6. Read the following sentences: "Snowmen are fun while they last, but the Earth's water cycle has to continue on. Eventually, no matter how much a person might wish for it not to be the case, the snowman will warm up from the sun and melt, turning back into water and being sopped up by the ground."

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- A Like
- **B** So
- C But
- D Then
- 8. Name four different kinds of precipitation.

Suggested answer: Four different kinds of precipitation include rain, snow, sleet, and hail.

9. Describe how precipitation is caused.

Suggested answer: Precipitation is caused when clouds become too large and unstable. The oxygen and hydrogen in the water vapor become closely packed together, which causes water to fall to the ground in liquid (rain) or solid (snow) form.

10. Explain how the water cycle continually repeats itself. Use information from the passage to support your answer.

Suggested answer: Answers should indicate that the water cycle continually repeats itself as water in the form of water vapor enters the earth's atmosphere and returns back to earth as one of the forms of precipitation, depending on the temperature. The process does not stop and water is always cycled through the earth and its atmosphere.