

Grade 4 Science Worksheet 1: Water Cycle (Difficulty Level: Advanced)

Name: _____

Date: _____

Question 1: Why does the temperature of water need to increase for evaporation to occur?

- a) To make the water molecules lose energy
 - b) To make the water molecules move faster and escape as vapor
 - c) To turn water into ice first
 - d) To make the water molecules form droplets
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Question 2: How does humidity affect evaporation?

- a) Higher humidity speeds up evaporation
 - b) Higher humidity slows down evaporation
 - c) Humidity does not affect evaporation
 - d) Humidity turns water into ice
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Question 3: Why is condensation important for cloud formation?

- a) It changes water into vapor that forms clouds
 - b) It turns water vapor into tiny droplets that gather to form clouds
 - c) It increases the heat in the atmosphere
 - d) It removes water from the air
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Question 4: Which of the following best explains how dew forms on grass in the morning?

- a) Water from the soil moves to the surface of the grass
 - b) Water vapor in the air condenses on the cold grass
 - c) Rain falls on the grass overnight
 - d) Water freezes and melts on the grass
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Question 5: Why do clouds form at higher altitudes?

- a) Water vapor cools down and condenses into droplets due to lower temperatures
 - b) The wind pushes water droplets higher
 - c) Water vapor heats up at higher altitudes
 - d) Clouds are formed only by the ocean's heat
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Bonus Question:

What happens to water vapor when it cools rapidly?

- a) It becomes ice directly
 - b) It condenses into liquid water
 - c) It turns back into gas
 - d) It disappears
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--BE THE CHAMPION!--