

Nova's Water Cycle Expedition

Learning objective: To identify and describe the stages of the water cycle, including evaporation, condensation, precipitation, and collection.

Join Nova the barn owl on her nocturnal flight to learn about how water moves around our planet. Read each question carefully and circle the correct answer or write your response in the space provided.

Answer Key: 1. B (Evaporation), 2. True, 3. Condensation, 4. C (Precipitation), 5. False (It is liquid or solid), 6. Collection, 7. B (The sun), 8. True, 9. Vapour, 10. Evaporation. Note: Ensure pupils use scientific vocabulary correctly.

Word bank: Evaporation · Condensation · Precipitation · Collection · Vapour · Temperature · Atmosphere

1. 1. What is the process called when the sun warms up water in rivers and seas, turning it into gas? A) Condensation B) Evaporation* C) Precipitation D) Freezing (1 mark)

2. 2. True or False: Clouds are formed during the process of condensation. (1 mark)

3. 3. When water vapour cools down high in the sky, what does it turn into to form clouds? (1 mark)

4. 4. Which term describes water falling from clouds as rain, snow, or hail? A) Collection B) Evaporation C) Precipitation* D) Melting (1 mark)

5. 5. True or False: Precipitation only ever falls to the ground as liquid rain. (1 mark)

6. 6. What is the name of the stage where water gathers in oceans, lakes, and rivers after falling from the sky? (1 mark)

7. 7. What provides the energy to keep the water cycle moving? A) The wind B) The sun* C) The moon D) The soil (1 mark)

8. 8. True or False: The water cycle is a continuous, repeating process. (1 mark)

9. 9. What is the gaseous form of water known as? (1 mark)

10. 10. Which stage of the water cycle is most affected by a rise in temperature? A) Collection B) Precipitation C) Evaporation* D) Gravity (1 mark)

Draw: Draw a labelled diagram showing Nova the owl watching the water cycle. Include the sun, a cloud, a mountain with a river, and arrows showing the direction of evaporation, condensation, and precipitation.



Extension challenge: Greater Depth Challenge: 1. Explain why the water cycle is essential for life on Earth. 2. Compare and contrast how water behaves in a puddle versus a deep ocean during evaporation. 3. Justify why the water cycle is considered a 'closed system'. 4. What might happen if the sun stopped warming the Earth's surface? 5. Predict how climate change might affect the speed of the water cycle. 6. Describe the journey of a single water droplet starting in the ocean and returning to the ocean after a week.