

Nova's Water Cycle Wonders

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

Join Nova the barn owl on an adventure through the skies! Answer these 10 questions to show how well you understand how water moves around our planet. Good luck!

Answer Key: 1. A (Evaporation), 2. True, 3. Condensation, 4. B (Precipitation), 5. False (the sun provides the energy), 6. Collection, 7. C (Water vapour), 8. True, 9. Evaporation, 10. A (The sun). Each correct answer is worth 1 mark.

Word bank: Evaporation · Condensation · Precipitation · Collection · Transpiration · Vapour

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

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

3. 3. What is the name for water falling from the sky as rain, snow, sleet, or hail? (One word) (1 mark)

4. 4. Which of these is NOT a form of precipitation? A) Snow B) Sunlight* C) Rain D) Hail (1 mark)

5. 5. True or False: The water cycle has a specific beginning and end point. (1 mark)

6. 6. When rainwater gathers in rivers, lakes, and oceans, this stage is known as: A) Evaporation B) Collection C) Distillation D) Freezing (1 mark)

7. 7. What do we call water in its gaseous state? A) Ice B) Liquid C) Water vapour* D) Steam (1 mark)

8. 8. True or False: Plants contribute to the water cycle by releasing water vapour through their leaves. (1 mark)

9. 9. If you left a puddle on the pavement, what process causes it to disappear on a sunny day? (One word) (1 mark)

10. 10. What provides the main source of energy that drives the entire water cycle? A) The Sun* B) The Moon C) Wind D) Gravity (1 mark)

Draw: Draw a diagram of the water cycle showing the sun, a mountain with a lake, clouds, and arrows showing the movement of water. Label the four main stages: Evaporation, Condensation, Precipitation, and Collection.



Extension challenge: Nova wants to know: If the temperature on Earth rose by 2 degrees, how might that change the rate of the water cycle? Write a short paragraph explaining your prediction.