

Nova's Amazing Water Cycle Adventure

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

Read the information below carefully. Nova the Owl has been watching the clouds and needs your help to explain how water travels around our planet. Answer the questions to test your knowledge!

Did you know that the Earth has been recycling its water for billions of years? It all starts with the Sun warming up the water in our oceans, rivers, and lakes. This warmth turns liquid water into an invisible gas called water vapour. This process is called evaporation. As the water vapour rises high into the sky, it cools down and turns back into tiny liquid water droplets. This is called condensation, and it is how clouds are formed. When these clouds get too heavy with water, the droplets fall back to the ground as rain, snow, or hail. We call this precipitation. Finally, the water flows into rivers and seas, which is called collection, and the whole cycle starts all over again!

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

1. What is the name of the process where the Sun turns liquid water into water vapour? (1 mark)

2. Describe what happens to water vapour during the process of condensation. (2 marks)

3. Why do clouds release precipitation? Use the information from the passage to explain your answer. (2 marks)

4. Name three different forms of precipitation mentioned in the text. (3 marks)

5. If the Sun stopped shining, what do you think would happen to the water cycle? Give a reason for your answer. (2 marks)

Draw: Draw a diagram of the water cycle. Include labels for the Sun, the ocean, a cloud, and arrows showing the direction of the water moving through the cycle.



Extension challenge: Nova wants to know how we use water at home. Research or think of three ways you can help conserve water in your house to protect our planet's precious resources.