

# Nova's Water Cycle Adventure

*Learning objective: To describe the water cycle and explain the role of evaporation and condensation in the state changes of water.*

Read the passage about Nova's discovery, label the diagram on the page, and answer the questions below. Once finished, colour the scene to show the journey of a water droplet.

Nova the owl sat on her favourite branch watching the morning mist rise from the lake. As the sun warmed the water, it turned into invisible water vapour and rose into the sky—this is called evaporation. High above, the air grew cooler and the vapour turned back into tiny liquid droplets, forming fluffy white clouds. This is condensation. When the clouds became too heavy, the water fell back to the ground as rain or snow, which we call precipitation. Finally, the water gathered in streams and lakes, ready to start the journey all over again. Nova blinked her large eyes; she loved how the Earth recycled every single drop of water!

*Word bank: Evaporation · Condensation · Precipitation · Collection · Water Vapour · Temperature*

**1. What causes the water in the lake to turn into water vapour? (2 marks)**

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**2. Explain the difference between evaporation and condensation using what you have learned. (2 marks)**

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**3. Why do clouds release precipitation? Use the word 'heavy' in your answer. (2 marks)**

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**4. What state of matter is water when it is in the form of a cloud? (1 mark)**

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**5. If the temperature suddenly dropped below freezing, what form would the precipitation take? (1 mark)**

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**Draw:** A landscape featuring a large lake at the bottom, a bright sun in the corner, fluffy clouds in the sky, and arrows showing the cycle of water moving up as vapour and falling down as rain. Include Nova the owl perched on a tree branch looking at the scene.



*Extension challenge: Imagine you are a tiny droplet of water in the lake. Write a short diary entry (3-4 sentences) describing your journey as you evaporate into the sky and become part of a cloud.*