

Nova's Water Cycle Investigation Log

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

Join Nova the owl on her scientific journey through the clouds! Use this experiment-record template to map out how water moves around our planet. Observe the natural world or use your science textbook to fill in the boxes below. Make sure to use the vocabulary in the word bank to explain your thinking.

Word bank: Evaporation · Condensation · Precipitation · Collection · Water vapour · Temperature · Atmosphere · Surface

1. Evaporation: Describe how water changes from a liquid to a gas. What role does the sun play in this process? (2 marks)

2. Condensation: Explain what happens when water vapour cools down high in the atmosphere. How do clouds form? (2 marks)

3. Precipitation: List the different forms that water can take when it falls back to the Earth's surface. (2 marks)

4. Collection: Where does water go after it has fallen to the ground? Describe how it gathers in bodies of water. (2 marks)

5. Scientific Summary: Why is the water cycle a continuous, repeating process? Explain your answer. (3 marks)

Extension challenge: Design a labelled diagram showing the full water cycle. Use arrows to show the direction the water travels and ensure you have included the sun as the main energy source.