

Nova's Water Cycle Investigation Log

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

Join Nova the owl to investigate how water moves around our planet. Use the definitions and labels below to record what happens during each stage of the water cycle. Think about how the sun's energy changes the state of water.

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

1. Evaporation: Explain what happens to water in rivers and seas when the sun warms it up. Where does it go? (2 marks)

2. Condensation: Nova wants to know how clouds are formed. Describe the change from water vapour back into liquid water droplets. (2 marks)

3. Precipitation: What causes water to fall from the clouds? List two different forms that this falling water might take. (2 marks)

4. Collection: Describe what happens to water after it falls to the ground. Where does it gather before it starts the cycle again? (2 marks)

5. The Big Picture: Why is the water cycle called a 'cycle'? Explain why the water never really disappears. (2 marks)

Extension challenge: Imagine you are a tiny droplet of water. Write a short paragraph describing your journey from a deep blue ocean, up into a fluffy white cloud, and back down to the earth as rain.