

Class 4 Geography Assessment: Weather and Climate

Learning objective: To demonstrate knowledge of weather patterns, climate zones, and the tools used to measure meteorological data.

Read each question carefully. Use your geographical vocabulary to explain your answers clearly. Write in full sentences where required.

Finn the dolphin has been travelling across the globe. He notices that near the equator, the air feels hot and humid all year round. As he travels north towards the UK, he observes that the weather changes rapidly from day to day. Sometimes it is sunny in the morning and rainy by the afternoon. Finn uses a thermometer to check the temperature and a rain gauge to measure the precipitation.

Word bank: precipitation · meteorologist · equator · temperature · climate · atmosphere · humidity · weather station

1. Using Finn's observations, explain the difference between 'weather' and 'climate'. (2 marks)

2. Name two pieces of equipment found in a weather station and describe what each one measures. (2 marks)

3. Why do countries near the equator have a different climate compared to the United Kingdom? Refer to the Earth's position in your answer. (3 marks)

4. If you were a meteorologist, why would it be important to collect weather data over many years rather than just one week? (3 marks)

5. Compare and contrast the climate of a tropical rainforest with the climate of a polar region. Give two similarities or differences. (4 marks)

6. Nova the owl is planning a migration. Justify why she must consider the climate of her destination before she leaves. (3 marks)

7. Extended Writing: Imagine the climate in the UK changed significantly and became much hotter and drier. Write a report (5 marks) explaining how this would affect the plants, animals, and the way people live in your local area. (5 marks)

**Draw: Draw a labelled diagram showing the water cycle. Include the following labels: _____
Evaporation, Condensation, Precipitation, and Collection.**



Extension challenge: Total: /25. Greater Depth Challenge: What might happen to global weather patterns if the Earth's temperature continues to rise? Explain the potential impact on sea levels and animal habitats.