

# Finn's Global Weather and Climate Expedition

*Learning objective: To identify key differences between weather and climate, understand climate zones, and recognise extreme weather patterns.*

Join Finn the dolphin on his journey across the world's oceans! Read each question carefully and circle your answer or write your response in the space provided. Good luck, young explorers!

Answer Key: 1. B; 2. True; 3. Weather; 4. A; 5. False (Climate is the average over a long time); 6. C; 7. D; 8. True; 9. Meteorologist; 10. Precipitation. Greater Depth: 1. Weather is short-term; climate is the long-term pattern. 2. Distance from the Equator affects solar energy intensity. 3. Mountains force air upwards, cooling it and causing rain. 4. Climate change can shift habitats, affecting migration. 5. Differences in air pressure and temperature. 6. Justify your answer based on personal knowledge of regional patterns.

*Word bank: Climate · Weather · Equator · Polar · Atmosphere · Precipitation · Temperature · Meteorologist*

**1. 1. What is the main difference between weather and climate? A) They are the same. B) Weather is short-term, climate is long-term. C) Weather is only cold, climate is only hot. D) Climate changes every hour.\* (1 mark)**

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**2. 2. True or False: The Equator receives more direct sunlight than the Polar regions. (1 mark)**

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**3. 3. Is 'a thunderstorm happening right now' an example of weather or climate? (1 mark)**

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**4. 4. Which of these is a measure of climate? A) Average rainfall over 30 years\* B) Wind speed this morning C) Today's temperature D) A sudden snow shower (1 mark)**

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**5. 5. True or False: Climate zones are determined solely by how much it costs to live in a country (£0). (1 mark)**

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**6. 6. Which zone is characterised by high temperatures and heavy rainfall all year round? A) Polar B) Temperate C) Tropical\* D) Arid (1 mark)**

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**7. 7. What is the process of water falling to Earth as rain, snow, or hail? A) Evaporation B) Condensation C) Collection D) Precipitation\* (1 mark)**

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**8. 8. True or False: A scientist who studies weather patterns is called a meteorologist. (1 mark)**

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**9. 9. What is the 1-word term for the invisible blanket of gases surrounding the Earth that creates our weather? (1 mark)**

**10. 10. Which of these is a factor that influences a region's climate? A) Altitude B) Distance from the sea C) Latitude D) All of the above\* (1 mark)**

**Draw: Draw a diagram showing the water cycle. Label the processes: Evaporation, \_\_\_\_\_, Condensation, and Precipitation.**



*Extension challenge: Greater Depth Challenges: 1. Explain why the climate near the Equator remains consistently warm throughout the year. 2. Compare and contrast the climate of a desert with that of a rainforest. 3. Justify why it is important for farmers to understand climate patterns when planning their crops. 4. What might happen to the Earth's ecosystems if global temperatures continue to rise? 5. Describe the relationship between altitude and temperature. 6. Create a 4-day weather forecast for your local area, justifying your predictions using evidence from current seasonal patterns.*