

Exploring Global Climate Zones with Finn the Dolphin

Learning objective: To identify and illustrate the characteristics of different global climate zones, including the Equator, Tropics, and Polar regions.

Follow the instructions below to create your climate zone map. Use the word bank to label your features accurately and ensure your drawing reflects the environmental characteristics of each region.

Draw: Create a cross-section map of the Earth showing climate zones. Use a clear, labelled diagram style. In the Tropical Zone, draw lush greenery and heavy clouds. In the Temperate Zone, show a variety of deciduous trees. In the Polar regions, depict jagged icebergs and snowy plains. Use bright colours for the tropics and cool blues and whites for the poles.



Label words: Equator · Tropical Zone · Temperate Zone · Polar Region · Tundra · Rainforest · Ice Cap · Latitude

Steps:

1. Step 1: Draw a large circle representing the Earth. Draw a horizontal line through the centre and label it the 'Equator'. Why is the climate typically warmer near this line? Explain your reasoning.
2. Step 2: Illustrate a dense rainforest near the Equator and a frozen ice cap near the top of your circle. Compare and contrast the types of vegetation you would expect to find in these two distinct zones.
3. Step 3: Label the Temperate Zone between the Tropical and Polar regions. Justify why the UK sits within

this zone and how that affects our seasonal weather patterns.

4. What might happen to the animals living in the Polar Region if global temperatures were to rise significantly over the next century?
5. Explain why the Sun's rays are more concentrated at the Equator compared to the Polar regions.
6. If you were to travel from the Equator towards the North Pole, describe the changes you would observe in the landscape and climate. Why do these changes occur?