Finn’s Earth-Shaking Geography Quiz

Learning objective: To understand the causes and effects of earthquakes and identify how they are measured.

Join Finn the dolphin on a deep-dive expedition into the Earth's crust! Read each question carefully and circle the best answer. Good luck, explorer!

Answer Key: 1. B, 2. True, 3. Seismograph, 4. C, 5. False, 6. Epicentre, 7. A, 8. True, 9. D, 10. Fault line.

Word bank: Tectonic plates · Seismograph · Epicentre · Richter scale · Crust · Fault line

1. 1. What do we call the giant sections of the Earth's crust that slowly move? A) Floating rocks B) Tectonic plates* C) Ocean basins D) Lava sheets (1 mark)

2. 2. True or False: Earthquakes happen when these large sections of the Earth's crust get stuck and then suddenly slip. (1 mark)

3. 3. What is the name of the scientific instrument used to detect and record the vibrations of an earthquake? (1 mark)

4. 4. Where is an earthquake generally felt the most strongly? A) The mantle B) The core C) The epicentre* D) The atmosphere (1 mark)

5. 5. True or False: An earthquake with a magnitude of 9.0 is less powerful than an earthquake with a magnitude of 2.0. (1 mark)

6. 6. What is the specific term for the point on the Earth's surface directly above where the earthquake starts? (1 mark)

7. 7. Which scale is commonly used to measure the strength or magnitude of an earthquake? A) Richter scale* B) Celsius scale C) Ruler scale D) Weighing scale (1 mark)

8. 8. True or False: Earthquakes can sometimes cause tsunamis if they occur under the ocean. (1 mark)

9. 9. Which layer of the Earth are we standing on? A) The Core B) The Mantle C) The Outer Shell D) The Crust* (1 mark)

10. 10. What is the name of the fracture or break in the Earth's crust where earthquakes often occur? (1 mark)

Draw: Draw a cross-section of the Earth showing the different layers. Label the 'Crust' and show two tectonic plates meeting at a jagged line.

Extension challenge: Imagine you are an architect designing a building in an area where earthquakes happen often. Write three features you would include to make the building safer and more stable.