Name _____

Cracking the Code: How Do We Know Earth's Plates Are Moving?

Multiple Choice Questions

1. What is one of the most significant pieces of evidence for moving tectonic plates?

a) The color of the Earth's oceans

b) The distribution of earthquakes

c) The number of continents on Earth

d) The length of rivers

2. Where do most earthquakes occur in relation to tectonic plates?

a) In the middle of continents

b) Along the boundaries of tectonic plates

c) Near the North Pole

d) On islands

3. What causes volcanic eruptions, and why are volcanoes important in understanding plate movement?

a) Heavy rainfall; they indicate areas prone to floods

b) The collision of tectonic plates; they help identify plate boundaries

c) Strong winds; they suggest windy regions

d) Erosion; they indicate areas with high erosion rates

4. How can fossils provide evidence of plate movement?

a) They can predict future earthquakes.

b) Identical fossils found on separated continents suggest those continents were once connected.

c) They reveal the exact age of tectonic plates.

d) Fossils prove that plates are stationary.

5. What does the magnetic alignment of minerals in volcanic rocks on the ocean floor reveal?

a) The age of the Earth's magnetic field

b) The direction of the nearest volcano

c) Bands of alternating magnetic polarity that support seafloor spreading and plate movement

d) The presence of underwater caves