

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Dare to Map the Moving Earth: 2nd Grade Tectonic Challenge

Young geologists transform into disaster-preparedness experts by analyzing how shifting puzzle-piece plates create deep-sea trenches and mountain peaks.

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**1. Imagine you are building a town near a 'Transform' boundary where plates slide past each other like two cars on a road. What should you build your houses out of to stay safe?**

- A. Heavy, breakable bricks
- B. Tall stacks of loose stones
- C. Flexible materials that can wiggle
- D. Thin glass sheets

**2. When two ocean plates pull apart, hot melted rock called \_\_\_\_\_ rises up to fill the gap and cools down to make new ocean floor.**

- A. Ice
- B. Magma
- C. Sand
- D. Cloud

**3. Is it true that the giant plates under our feet move about as fast as your fingernails grow?**

- A. True
- B. False

**4. If you found a deep, dark trench at the bottom of the ocean, what is likely happening to the Earth's plates there?**

- A. One plate is hiding under another
- B. The plates are staying perfectly still
- C. The plates are floating away to space
- D. A new continent is being born

**5. Volcanoes can only form on land and never under the cold ocean water.**

- A. True
- B. False

**6. An earthquake happens because plates get \_\_\_\_\_ on each other and then suddenly snap free, releasing energy.**

- A. Oily
- B. Stuck
- C. Polished
- D. Wet

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**7. You see a mountain range with jagged peaks and no smoke. How did these mountains most likely get there?**

- A. A giant waved a magic wand
- B. The wind blew dirt into a pile
- C. Two plates crashed and wrinkled up
- D. An earthquake moved them from the beach

**8. Scientists use a tool called a \_\_\_\_\_ to listen to the Earth and measure how big an earthquake is.**

- A. Telescope
- B. Stethoscope
- C. Seismograph
- D. Thermometer

**9. Most volcanoes and earthquakes happen in the middle of a plate rather than at the edges.**

- A. True
- B. False

**10. Why is the earth's surface like a giant jigsaw puzzle?**

- A. Because it is made of many pieces called plates
- B. Because people painted it that way
- C. Because it is made of cardboard
- D. Because the pieces never move