

Plate Tectonic Basics

Name _____

Use the sites on the Earth Science page of the Science Spot's Kid Zone (<http://sciencespot.net>) to help you complete the assignment.

SITE #1: ANMH PLATES INTERACTIVE

1. Read the information in the introduction to help you fill in these blanks. Hint: Hit the refresh icon to view it again.

Earth's outer shell is made of _____ that contain _____ and _____ crust. The place where they meet are called plate _____, which is where most _____, mountains and _____ occur.

2. Click the "Click here to explore" button and then read the directions. Click "To the map" to begin. Document four different earthquakes or volcanoes in the chart below.

Location	Description (including what happened, the plates involved, and type of boundaries/forces)	Facts (Need 2-3)

SITE #2: PLATE TECTONICS QUIZ

Use the quiz to help you answer these questions or complete the statements. Note: Puzzle pieces will appear when you choose an answer; however, only correct answers will result in the right piece of the puzzle appearing.

1. _____ crust is older than _____ crust.
2. _____ crust is thicker than _____ crust.
3. Sea floor _____ occurs as two oceanic plates move apart, but _____ occurs when one plate is pushed under another.
4. The plates float on the upper _____, which is where _____ comes from to create new crust.
5. _____ can occur where two plates slip past one another, while fold _____ can occur when two plates collide.
5. _____ proposed the idea of continental drift and called the supercontinent _____.

Challenge Questions: Search the web to find the answers to these questions.

- A. On which plate do we live? _____
- B. Faults are cracks in earth's crust. Which fault line is closest to us? _____
Where is it located? _____
When was the last time it was "active"? _____
- C. Describe the most recent earthquake in the United States. _____

- D. Describe the most recent volcanic in the United States. _____

- E. What is a tsunami? _____