

SCIENCE PUZZLERS, TWISTERS & TEASERS

Plate Tectonics

Tectonic Rhyme Time

1. Professor Bankston, an inventor/architect, has made some creations. Some sound more useful than others. Each of the clues below indicates a two-word rhyming answer that describes one of professor Bankston's creations. Write the words in the blank.

a. the amount of force put on a given material, and a machine for applying that force

b. the outermost layer of earth, and oxidation particles that cover the iron portion of it

c. the surface along which rocks break and slide past each other, and an impenetrable room in which to store it

d. extends from the bottom of the mantle to the center of the earth, and the place where you can buy parts of it

The Blame Game—Whose Fault Is It?

2. Amanda blames others for everything. Below are some questions her teacher has asked her about faults, and the jumbled responses she gave in return. Write the correct responses below.

Teacher: Amanda, why did the hanging wall move up relative to the footwall?

Amanda: It was Reeser V.'s fault!

a. _____

Teacher: O.K. Amanda, let's try again. Why did the hanging wall move down relative to the footwall?

Amanda: It was Ron Lam's fault!

b. _____

Plate Tectonics, continued

Teacher: One more try, Amanda. This occurred when opposing forces caused rock to break and move horizontally.

Amanda: It's not my fault! Petrik Sils did it!

c. _____

Oceanic Plates vs. Continental Plates

3. Little Denny has always wanted to be a sports announcer. Right now, his California neighborhood is experiencing an earthquake and Denny needs a partner to announce the 'quake play-by-play. Fill in the blanks to help Denny.

Continental plate and oceanic plate are lined up head to head. Oceanic plate takes the snap. The fields rumble as the crowds go wild. Oceanic plate drops back, away from continental plate. Looks like a pass! Looks like oceanic plate is trying to create a

(a.) _____ .

Wait! Continental plate is rushing in. Continental plate has collided with oceanic plate and they are pushing on one another. Continental plate has definitely created a

(b.) _____ .

Oceanic plate isn't finished yet. Oceanic plate moves to the side. Oceanic plate slides past continental plate to create a

(c.) _____ .

Oceanic plate ducks underneath. Has oceanic plate . . . I think Ocea . . . Yes! Oceanic plate has made it to the asthenosphere and

into the **(d.)** _____ .

Word Connections

4. The following sentence contains a hidden word from the chapter. The word can be found by looking at part (or all) of one word and connecting it to the beginning of the next word(s). Circle the hidden word. For example, the word *undo* is hidden between the words *run, dogs*.

When Billy goes to the bank, he always gets his money in fives and tens. I, on the other hand, prefer twenties and fifties.