

Name: _____

Date: _____

Plate Tectonics

Instructions for VIVED Science

1. Open the *Plate Tectonics* session and follow the instructions.
2. Complete the Plate Tectonics worksheet as you progress through the session.
3. Conduct research about tectonic plates, including the history of their discovery and famous boundaries, using textbooks and the Internet.
4. Record additional research on the Plate Tectonics Research worksheet.

1. In which layer of Earth is the asthenosphere?

2. Earth is broken up into approximately how many plates?

3. What is the difference between a convergent and a divergent boundary?

4. How do you think the Himalayan mountain range was formed?

Choose one boundary between two tectonics plates. Draw it below, and label the plate names and the direction of movement between them.

Type of Boundary: _____

Name: _____ **ANSWER KEY** _____

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Plate Tectonics

1. In which layer of Earth is the asthenosphere?

The asthenosphere is found in the upper mantle.

2. Earth is broken up into approximately how many plates?

Earth is broken into seven or eight major plates and many minor plates.

3. What is the difference between a convergent and a divergent boundary?

A convergent boundary is a place where two plates are moving toward each other.

A divergent boundary is a place where two plates are pulling apart from one another.

4. How do you think the Himalayan mountain range was formed?

I think the Himalayan mountain range was formed by a convergent boundary

where two plates pushed toward one another over millions of years, pushing ground upward.

Choose one boundary between two tectonics plates. Draw it below, and label the plate names and the direction of movement between them.

Drawings will vary

Type of Boundary: _____