Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4.1 Practice

SWBAT define Earth’s layers by composition, density, and thickness.

This assignment is designed to help you practice and retain information on Earth’s Interior Layers. Using the content in pages 233 to 237on Earth’s Interior and 4.1-guided notes, answer the following questions. Keep your Earth’s layers foldable/diagram in your binder.

**Review:**

1. What is the composition of the Earth’s core?

2. What evidence indicates that Earth’s outer core is liquid?

3. What is the composition of the mantle?

**Critical Thinking:**

4. Compare and contrast the physical properties of the asthenosphere and the lithosphere.

5. Mature learners take the time to create ways to remember difficult concepts. Based on your personal learning style come up with a way to remember the difference between asthenosphere and lithosphere. Describe your strategy below in at least two sentences.

6. Why are meteorites considered important clues to the composition of the Earth’s interior?

**Creative Writing:**

7. Write a fictional story (7 sentence minimum) about a trip to the Earth’s core. Make sure to include an explanation describing how this information is scientifically accurate.

**Evaluate Understanding:**

8. Draw two cross sections of Earth: one shows how the layers are defined by composition, and the second shows how the layers are defined by physical properties. Be sure to annotate your cross sections.

SWBAT explain the movement of tectonic plates at different boundaries.

After completing the assignment above, read pages 254 to 255 and answer the following questions.

**Preview Content:**

9. Define the theory of plate tectonics.

10. Define the term “lithospheric plate.”

11. What theory proposes that Earth’s outer shell consist of a number of rigid slabs?

12. Create a table to display the three plate boundaries. Be sure to draw a diagram for each boundary.