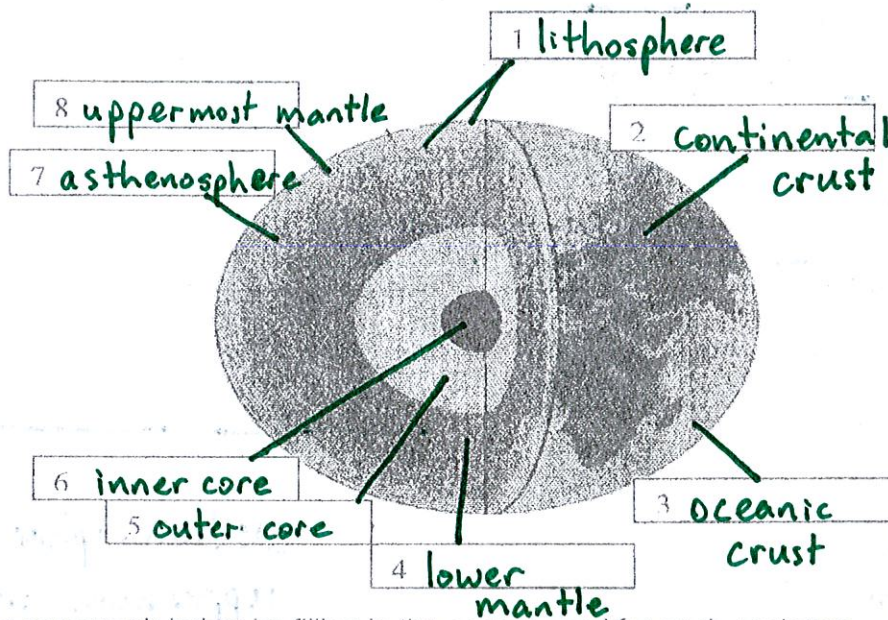


**Part 1:** Match the correct term with the correct definition.

- |             |  |   |
|-------------|--|---|
| 1. <u>e</u> | This variable doesn't change                       | <input checked="" type="checkbox"/> a. Problem              |
| 2. <u>c</u> | The steps you follow to do an experiment.          | <input checked="" type="checkbox"/> b. Independent Variable |
| 3. <u>f</u> | A prediction of the results                        | <input checked="" type="checkbox"/> c. Scientific Method    |
| 4. <u>d</u> | This variable is what you measure                  | <input checked="" type="checkbox"/> d. Dependent Variable   |
| 5. <u>a</u> | The question you try to answer using an experiment | <input checked="" type="checkbox"/> e. Control Variable     |
| 6. <u>b</u> | This variable is the one you purposely change      | <input checked="" type="checkbox"/> f. Hypothesis           |

Study Guide:  
Quiz on  
Friday 9/2/16

**Part 2:** Label the Layers using the word bank



- Inner Core
- Continental Crust
- Lithosphere
- Oceanic Crust
- Lower Mantle
- Outer Core
- Asthenosphere
- Uppermost Mantle

**Part 3:** Complete the paragraph below by filling in the correct word for each sentence.

Mark has to do an experiment for his schools science fair. He decided to experiment with milk and plants. His problem was "What is the effect of milk on plant growth?" He begins his research by using the internet to identify the ingredients in milk. He then creates a hypothesis that states: "If milk is used instead of water, then the plants will stop growing."

Part 4: Underline the independent variable and circle the dependent variable.

1. If the snow is soft, then the skier will go faster.
2. If the speed of the aircraft is slower, then there will be more air resistance.
3. If the string is tight, then the ant will walk across the string faster.

Part 5: Answer the following questions by placing the correct letter answer on the line to the right.

1. What is the correct format for a hypothesis? 1. d
  - a. I think the football will travel faster when the wind speed is decreased.
  - b. If you move the wind chime to the left, it will make a louder noise.
  - c. If the basketball has more air in it, it will bounce higher.
  - d. If the sky diver jumps from a higher altitude, then velocity will increase.
2. In the scientific method, the problem is: 2. c
  - a. always a statement.
  - b. never a question.
  - c. always a question.
  - d. an exclamation.
3. A hypothesis is: 3. b
  - a. never a correct guess.
  - b. always a prediction based on your research.
  - c. sometimes a question.
  - d. always wrong and needs to be revised.

Part 6: Put the following layers of the Earth in order from MOST (1) dense to LEAST (6) dense

- |            |               |                  |              |            |       |
|------------|---------------|------------------|--------------|------------|-------|
| Outer core | Asthenosphere | Uppermost Mantle | Lower Mantle | Inner Core | Crust |
|------------|---------------|------------------|--------------|------------|-------|
1. inner core
  2. outer core
  3. lower mantle
  4. asthenosphere
  5. uppermost mantle
  6. crust

Part 7:

1. The ONLY liquid layer of the earth is the outer core.
2. The semi-solid layer of the earth is the asthenosphere.
3. The core is mostly made of iron and nickel.
4. Granite, the rock of the continental crust, is less dense than basalt, the rock of the oceanic crust.
5. The lithosphere is made of the crust and uppermost mantle and is divided into pieces.