Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_

Layers of the Earth Lab

Purpose: To identify the layers of the Earth and cracks in the Earth’s surface as

faults.

Hypothesis: How does a hard boiled egg resemble the Earth’s surface?

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 How does cutting the egg in half resemble the layers of the Earth?

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Materials: hard-boiled egg, paper towel, plastic knife, marker, lab sheet

Procedures: 1. Lightly tap the egg on all sides to produce cracks.

1. Use a marker to trace along the major cracks of the egg.
2. Make a drawing of the egg.
3. Peel the egg gently until you remove the shell.
4. Using the plastic knife, cut the egg in half.
5. Draw a picture of what you see. Color & label the parts of the egg using the layers of the earth (mantle, crust, inner core, outer core)

Observations:

|  |  |
| --- | --- |
| **Diagram of Outer Egg****(earth’s surface)** | **Diagram of Inner Egg****(earth’s layers)** |

Conclusion: Answer each question below.

1. What layer of the Earth does the egg’s shell represent?
2. The clear membrane of the egg acts as a barrier between the shell and the egg white. How is this like the Earth’s layers?
3. How is the egg white similar to the Earth’s mantle?
4. Does the egg have an inner and outer core? Explain.
5. How are the cracks of the shell like the Earth’s crust?
6. Describe how the egg is a good model of the layers of the Earth. Be sure to use essential vocabulary.