Layers of the Earth-A deeper look

Name_____ Period_____

Activating Prior Knowledge: In the space below, bullet facts that you already know about the layers of Earth!

Applying the Science Process: Now, write a question you are wondering about the layers of the Earth. Write it in appropriate, scientific form! *(HINT: Refer to your notes (Peculiar Problems) about problem format and variables!!)*

Research: Read chapter 5, section 1 (pages 124-131) of your Earth Science textbook to learn more about the layers of the Earth. As you read, answer the following questions, label the diagram, and complete the table.

Exploring Inside Earth:

1. What prevents geologists from directly exploring Earth's interior?

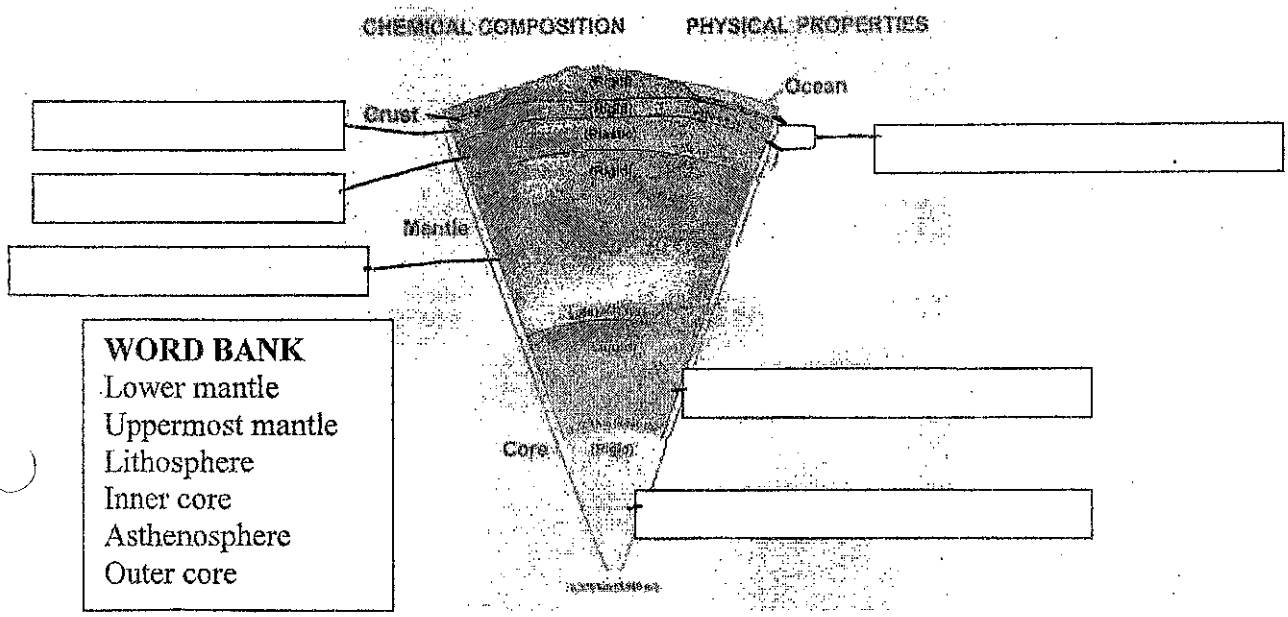
2. Name and explain the two types of evidence that geologists use to learn about the Earth's interior.

A Journey to the Center of the Earth:

3. How is the water in a swimming pool (see figure 4) similar to the Earth's interior? How is it different?

The Crust, The Mantle, and The Core

4. As you read pages 128-130, label the diagram and complete the chart on the back of this page.



WORD BANK
Lower mantle
Uppermost mantle
Lithosphere
Inner core
Asthenosphere
Outer core

Layer of the Earth	Thickness of this layer	Temperature of this Layer	State of matter of this layer (solid, semi-solid, liquid)	Content of this layer
Crust		Temperature varies with location (land and ocean floor)		Continental Crust- Oceanic Crust-
Uppermost Mantle		870C or 1600 F		Oxygen, silicon, aluminum, calcium, iron, sodium, potassium, magnesium
Asthenosphere		2200C or 4000 F		Silicon, oxygen, aluminum, iron, magnesium, calcium
Lower Mantle		3700 C or 6700 F		Silicon, oxygen, iron, magnesium, aluminum, calcium
Outer Core		4300 C or 8500 F		
Inner Core		7200 C or 13000 F		

Hypothesis: We will come back to this! When we do, write a hypothesis to your problem based on the research you just completed. *(Hint: Refer to your notes (Happy Hypothesis) about format, variables, and research!)*