

Purpose: To explore the layers of earth's interior

Procedure: Follow the steps below to complete this activity. Some information you can find in our previous units.

1. Fill in the following table using information from your notes and your book on page 23.

Layer	Depth (km)	Temperature (°C)
Crust	0 – 40km	0 – 870 °C
Mantle	a.	b.
Outer Core	c.	d.
Inner Core	e.	f.

2. Use the diagram on page 22 to help you answer these questions.

How thick is the mantle? _____

How thick is the outer core? _____

How thick is the inner core? _____

3. Describe the crust. _____

Describe the mantle. _____

Describe the outer core. _____

Describe the inner core. _____

4. Note: Use element symbols when answer the following questions!

What is the chemical composition of the crust? _____

What is the chemical composition of the mantle? _____

What is the chemical composition of the outer core? _____

What is the chemical composition of the inner core? _____

5. What mineral group is the most common in earth's crust? (Hint: look at your answer for number 4. Which mineral group is from those elements?)

6. What are the two types of crust? (pg. 20) What is each made of?

7. The mantle is divided into two layers. What are they? (pg. 20-21).

8. What's the difference between these layers? _____

9. The asthenosphere is about 500km thick. The lithosphere is approximately 100km thick. However, the lithosphere also includes the crust. How much of the lithosphere is part of the mantle? _____

10. Read the section called "Indirect Evidence" on page 18. How do scientists know what is inside Earth? _____
