

## Lesson 13-Layers of The Earth

### KEY TERMS

**core**

**crust**

**magma**

**mantle**

### OBJECTIVES

- ⇒ Identify the layers of the Earth
- ⇒ Compare and contrast the layers of the Earth

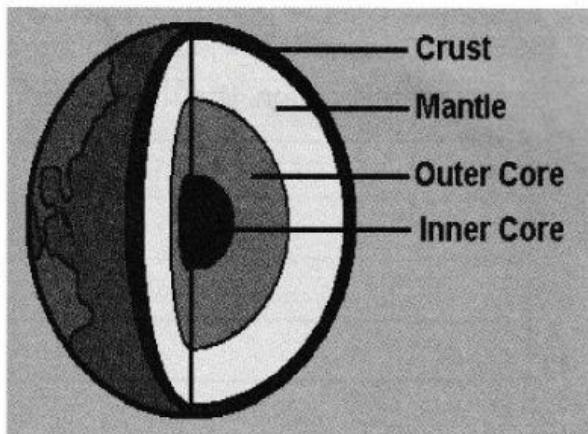
The Earth has **three (3)** layers. These layers are the *crust*, *core* and the *mantle*.

### The Crust

Earth's outermost layer is the **crust**. The crust is the thinnest layer of the Earth. It is made up of rocks with loose dirt covering the rocks. We live on Earth's crust which is about 32 km thick under the surface of the continents and about 8 km thick under the ocean floor. Scientists study the crust by drilling to get samples from it. The other layers are studied from materials taken after an earthquake and materials that come to the surface after a volcanic eruption.

### The Mantle

The layer directly beneath the crust is the **mantle**. The mantle is the thickest layer. Some of the upper mantle is melted because of the heat known as **magma**, however, great pressure keeps a part of the mantle solid.



### The Core

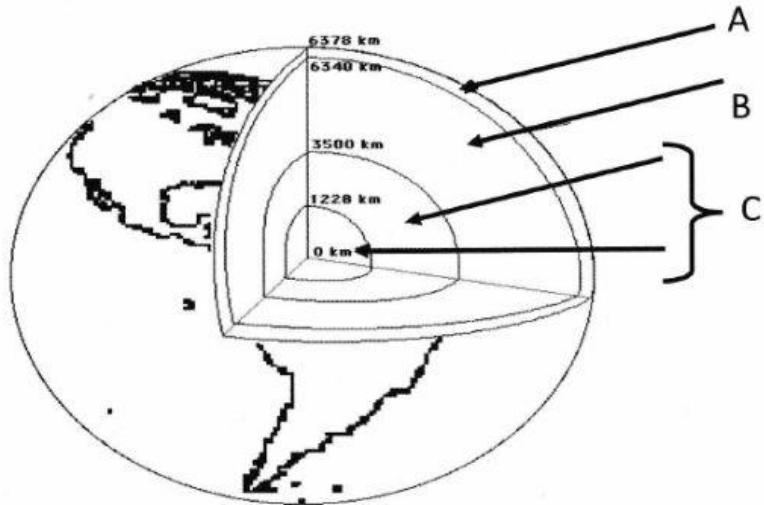
The innermost layer is the **core**. The core has an inner core and an outer core. The inner core is mainly made up of iron and nickel. It is extremely hot and metals would usually melt at that extreme heat. The inner core is solid because of the pressure and weight of the other layers around it.

## Layers of The Earth-Assessment

Name: \_\_\_\_\_

Date: \_\_\_\_\_

The diagram below shows the layers of the Earth. Use the diagram to answer the following questions correctly.



1. Read each description below. Complete the table to match the layer of the Earth with its correct description. Use the letters **A**, **B** and **C**. [3]

LAYER OF THE EARTH	DESCRIPTION
	thickest layer
	innermost layer
	outermost layer

2. Which layer of the Earth do we breathe on? [1]

\_\_\_\_\_

3. Name **TWO** materials the **inner core** is made up of. [2]

a. \_\_\_\_\_

b. \_\_\_\_\_

4(a) Complete the statement below.

[1]

**Hot molten or melting rock inside the Earth is known as \_\_\_\_\_.**

4(b) In which part of the Earth can you find the answer mentioned in 4(a)? Shade in the LETTER next to the correct answer. [1]



5. Explain the difference between how materials from the **crust** and **inner layers** are gathered to be studied.

[2]

**TOTAL MARKS-10**