



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

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

Section: \_\_\_\_\_ HR: \_\_\_\_\_

## Chapter 1 Section 1: Earth's Interior

### Introduction

What caused a 2.5 square kilometer landmass to form in the ocean off the coast of Iceland in 1963?

What did the Icelanders name this landmass? Who did they name it after?

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### The Science of Geology

Geologist-

The properties of rock that geologists study include:

Geologists divide the forces that change the earth's surface into two groups:

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- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Force 1: \_\_\_\_\_

Force 2: \_\_\_\_\_

Examples of these forces:

continent-

**Figure 2: Observing**

What are the geologists in each picture doing?

Geologists examine the layers of Earth to answer what three questions?

The forces that shapes the surface by building up mountains and landmasses

The forces that slowly wear away mountains and, eventually, every other feature on the surface.

Force 1: \_\_\_\_\_

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Force 2:

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

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- \_\_\_\_\_  
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**Checkpoint (page 21)**

How does the material of the asthenosphere differ from the material of the lithosphere?

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**The Core**

The two sub-layers of the core are:

What is the major difference between the two sub-layers?

- \_\_\_\_\_
- \_\_\_\_\_

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What characteristics cause geologists to consider the inner and outer cores as part of one layer instead of as two separate layers?

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**Earth's Magnetic Field**

**Figure 7: Relating Cause & Effect**

If you shifted the magnet beneath the paper, what would happen to the iron filings?

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What happens in Earth's interior to produce Earth's magnetic field?	

## Sharpen Your Skills

### Creating Data Tables

Imagine that you have invented a super-strong vehicle that can resist extremely high pressure as it bores a tunnel deep into Earth's interior. You stop several times on your trip to collect data using devices located on your vehicle's outer hull. To see what conditions you would find at various depths on your journey, refer to *Exploring Earth's Interior* on pages 22-23. Complete the table below.

Depth	Name of Layer	What the Layer Is Made Of