

Unit 2 Lesson 1

Guided Notes

Name _____ # _____ Class _____

- Earth can be divided into four systems called the _____, _____, _____, _____.
- These four systems interact to affect _____, shape, landforms, and support _____.

Section 1: Earth Has Four Systems

- Above Earth's surface is the _____, a mixture of gases that surrounds Earth.
- Earth's water makes up the _____.
- The _____ includes all living things found on Earth...including you!
- Earth's _____ is made up of a thin surface layer of rock, _____, and sediments as well as the layers of hot molten rock inside Earth.

Section 2: The Atmosphere

- Layers of the Atmosphere
 - The layer closest to Earth's surface is called the _____.
 - The next layer is called the _____.
 - When the sunlight hits the air at the top of the stratosphere it forms _____ that absorbs energy and heats up the layer.

- Gases in the Atmosphere
 - _____ is a mixture of gases.
- The Atmosphere Heats Earth
 - The _____ effect is when light energy is absorbed by Earth's _____.
 - Too much carbon dioxide in the atmosphere causes _____.

Section 3: The Biosphere

- Parts of the Biosphere
 - The biosphere has the _____ amount of _____ of Earth's 4 systems.
- Animals Affect Earth's Systems
 - Parts of the biosphere _____ with other systems to change the Earth
- Humans Affect Earth's Systems
 - Human activities affect the _____ and _____.
 - Chemicals can cause _____ rain or produce _____ gas.

Section 4: The Hydrosphere

- About _____ of Earth's surface is covered with water.
 - About 97 percent of Earth's water is _____ water.
- Earth's Fresh Water
 - Much of Earth's fresh water is frozen in _____ and _____.

- _____ water and _____ provide most of the fresh water that living things need.
- Earth's Salt Water
 - The ocean interacts with the _____ and change the shape of land.

Section 5: Earth's Water Cycle

- Water Is Conserved
 - Water exists in three states: _____, _____, and _____
 - Water can change from one state to another as it _____ and _____
 - Water is never _____ from the hydrosphere
 - It changes state over and over. The continuous movement of water over the land and in the air is called the _____.

Section 6: The Geosphere

- Earth's Layers
 - The geosphere includes Earth's _____ and its _____.
 - The geosphere has four layers: the _____, _____, _____, _____.
 - The outside layer is called the _____.

- The core has two parts, an _____ and an _____.
- Rocks and Minerals
 - _____ rock forms when melted rock from Earth's mantle comes to the surface in a _____ eruption.
 - _____ forms when pieces of sand, rock & shells are pressed together.
 - _____ rock forms from existing rock.

Section 7: Soil

- Soil is the _____ material that covers Earth's surface. It contains parts from all four of Earth's _____.
- Different parts of Earth's surface have different kinds of _____.
- All soil is made of _____ like the topsoil and subsoil.