

Chapter Ten

Science Study Guide

Vocabulary:

Solar energy: Energy the Sun gives off

Humus: The part of soil made up of decomposing plant and animal remains

Solar cells: Cells that change solar energy into electrical energy

Ore: A rock rich in minerals that can be removed from the Earth

Fossil fuels: Fuels including coal, natural gas, and oil that are made from organisms that lived long ago (nonrenewable resources).

Petroleum (oil): A nonrenewable fossil fuel

Conservation: Using only what you need as efficiently as possible (ex: Turning off water when you brush your teeth, taking shorter showers)

Recycling: Saving, collecting, or using materials again instead of treating them as waste

Key Points:

- ◆ Natural Resources are supplies that nature provides, both living and nonliving.
- ◆ Renewable resources can be replaced.
- ◆ Nonrenewable resources cannot be replaced. They are being used up faster than they are being replaced.
- ◆ Soil (a renewable resource)
 - The upper layer of soil that contains decaying matter and bits of weathered rock is topsoil.
 - Bedrock is a layer of soil made up mostly of solid rock.
 - Weathered rock is a nonliving ingredient in soil.
 - Bacteria, fungi, worms, and insects are living materials in soil. They break down plant and animal remains into nutrients the plants use.
 - The best soil for growing plants is a mix of clay, silt, sand, and humus.
 - The main difference between clay, silt, and sand is the size of particles in them.
 - Clay is used to make bricks. Sand is used to make glass.
 - Weathering weakens rocks and breaks them apart, helping to renew soil.
- ◆ Some plastic can be recycled into t-shirts, jackets, and sleeping bags.
- ◆ Renewable resources should be conserved because they can be difficult and costly to restore once they are harmed. Nonrenewable resources should be conserved because they will last longer.
- ◆ Energy from the Sun helps water evaporate in the water cycle.
- ◆ Oil spills can kill marine organisms and plants and animals that live along coasts.