

3rd Grade Science SOLs

Study Guides & Review Worksheets

Soil



Composition

Soil is made up of different particles. The particles are called soil components. The components of soil are:

- Water
- Clay
- Silt
- Sand
- Rocks

Clay

Clay's tiny particles hold onto water and nutrients, which is good for plant growth.



Silt

Silt's slightly larger particles can hold onto some water and nutrients, but not as much as clay.



Soil and Life

Soil is an important natural resource. It provides a home for many living things. Soil supports plants. Plants use their roots to absorb water and nutrients from the soil. Soil has organisms. Plants and animals need soil to live. Soil provides habitats for plants and animals. Animals such as worms and insects live in the soil and make it rich for plants.

Conservation

Term to Know

Conservation: The careful use and preservation of natural resources.

Human Impact

Human actions can harm ecosystems and living things. Examples:

- Pollution:**
 - Clearing large parts of land
 - Over-fertilizing lawns
 - Throwing away trash or materials for plants

Natural Events

Natural events can also harm ecosystems and living things. Humans can help reduce the effects of these events.

- Forest Fires:** Use controlled burns.
- Floods and Droughts:** Use water conservation methods and building levees.
- Weather Events:** Plant vegetation along shores of bodies of water to reduce erosion, storms, or water damage.

Water

All living things need safe drinking water.

Ways to Reduce Water Waste and Pollution

- Conserving Water:** Turn off faucets when they are not in use. Fix leaky pipes and take shorter showers.
- Reduce Pollution:** Throw away waste in proper recycling centers. Use safety measures when driving for oil.



Soil & Land

Soil provides nutrients and support for plants. Soil and land provide habitats.

Ways to Reduce Soil and Land Pollution

- Recycle:** Recycle to reduce trash in landfills.
- Compost:** Compost food scraps and yard waste. Composting reduces the need for chemical fertilizers.
- Reduce Littering:** Throw away waste in proper recycling centers. Use safety measures when driving for oil.

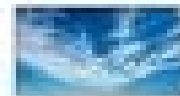


Clean Air

All living things need clean air.

Ways to Reduce Air Pollution

- Reduce Emissions:** Walk or ride a bike instead of using a car or bus.
- Plant Trees:** Plants help filter the air.
- Reduce Dust:** Use power from the sun and wind instead of oil, coal, or natural gas.



Feeding & Feeding Forces

A **prey** is an animal that is eaten by another animal. A **predator** is an animal that eats another animal.



Feeding is a force that pushes living things to eat. It is a force that pushes living things to eat. It is a force that pushes living things to eat.



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B Lingard



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