

3rd Grade Science SOLs

Study Guides & Review Worksheets

Soil



Composition

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

Clay

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



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 plants and animals. Soil supports plants. Plants use their roots to absorb water and nutrients from the soil. Soil has **organisms**. Plants and animals need soil. Soil provides **habitat** 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:**
 - **Using only coal or natural gas for power:**

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.
 - **Acid rain:** Reduce vegetation along shores.
 - **Wildfires:** Create firebreaks, plant, or water forests.

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 habitat.

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 Pollution:** 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 bike instead of using a car or bus.
 - **Plant Trees:** Plants take the air.
 - **Use Clean Energy:** Use power from the sun and wind instead of oil, coal, or natural gas.



Feeding & Feeding Forces

A **food web** is a group of food chains. It shows how energy flows from one organism to another.



Energy is a force that pushes or pulls objects. It is the energy that makes things move.



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K Morrison



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