

3rd Grade Science SOLs

Study Guides & Review Worksheets

Soil



Components

Components

Water

Clay

Silt

Sand

Rock

Clay

Soil and Plants

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. Silt supports plant growth, but not as well 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 anchor themselves in the soil and take up water and nutrients.

Soil has nutrients. Plants and animals need these nutrients to grow and live.

Soil provides habitats for plants and animals. Animals such as moles and worms dig in the soil and make the soil their home.

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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 plots of land:**
 - **Over-fertilizing lawns:**
 - **Using oil, coal, or natural gas for power:**

Natural Events

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

- **Forest fires:** Use controlled burns.
- **Tornadoes and earthquakes:** Use safe construction materials and building codes.
- **Coastal erosion:** Plant vegetation along shores.
- **Flooding:** Install flood barriers, dams, or water pumps.

Water

All living things need safe drinking water.

Ways to Reduce Water Waste and Pollution

- **Conserve Water:** Turn off faucets when they are not in use, fix leaky pipes, and take shorter showers.
- **Reduce Littering:** Throw away waste in bins or recycling centers. Use safety measures when drilling 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 bins or recycling centers. Use safety measures when drilling 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 filter the air.
- **Use Clean Energy:** Use power from the sun and wind instead of oil, coal, or natural gas.



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Pushing & Pulling Forces

A force is any push or pull on an object.

A push moves things away.

A pull moves things toward.

Pushing a box.

Pushing a rope.

Pushing a force that pulls everything toward Earth. An example is when an apple falls from a tree or drops into a well.

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R Pring



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