

# 3rd Grade Science SOLs

## Study Guides & Review Worksheets

### Soil



#### Components

Components  
 small particles hold water & nutrients  
 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 absorb water and nutrients from the soil.  
 Soil has nutrients. Plants and animals need 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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A push moves things away.



A force is any push or pull on an object.

A pull moves things toward.



Pushing & Pulling Forces

Gravity is a force that pulls everything toward Earth. An example is when an apple falls from an apple tree.



Objects tend to move, stop, or change direction or speed.

Force



Simple machines



# Matter Study Guide 3rd Grade

**Rosina Ehmann**



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