

3rd Grade Science SOLs

Study Guides & Review Worksheets

Soil



Components

Components

Water

Clay

Silt

Sand

Rock

Clay

smaller particles hold water so contains the most water

Soil and Plant Growth

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 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.
- Hurricanes 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 a tree or drops from a hand.



Matter Study Guide 3rd Grade

G Psacharopoulos



Matter Study Guide 3rd Grade:

The Enigmatic Realm of **Matter Study Guide 3rd Grade**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Matter Study Guide 3rd Grade** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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