

# 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 grow in the soil.

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

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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### Pushing & Pulling Forces

A push moves things away.



A force is any push or pull on an object.

A pull moves things toward.



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

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



Objects tend to move, stop, or change direction or size when a force is applied.

Force can be more than one.

Force can be a push or pull.

Force can be strong or weak.

Force can be fast or slow.

Force can be helpful or harmful.

Force can be used to do work.

Force can be used to play.

Force can be used to create.

Force can be used to destroy.

Force can be used to change.

Force can be used to move.

Force can be used to stop.

Force can be used to start.

Force can be used to turn.

Force can be used to lift.

Force can be used to lower.

Force can be used to stretch.

Force can be used to compress.

Force can be used to twist.

Force can be used to bend.

Force can be used to break.

Force can be used to join.

Force can be used to separate.

Force can be used to mix.

Force can be used to filter.

Force can be used to purify.

# Grade 3 Science Sol Study Guide

**DP Hallahan**



## **Grade 3 Science Sol Study Guide:**

**Virginia SOL Grade 3 Science Secrets Study Guide** Mometrix Media LLC,2014-03-31 Includes Practice Test Questions Virginia SOL Grade 3 Science Secrets helps you ace the Virginia Standards of Learning Examination without weeks and months of endless studying Our comprehensive Virginia SOL Grade 3 Science Secrets study guide is written by our exam experts who painstakingly researched every topic and concept that you need to know to ace your test Our original research reveals specific weaknesses that you can exploit to increase your exam score more than you ve ever imagined Virginia SOL Grade 3 Science Secrets includes The 5 Secret Keys to Virginia SOL Success Time is Your Greatest Enemy Guessing is Not Guesswork Practice Smarter Not Harder Prepare Don t Procrastinate Test Yourself A comprehensive General Strategy review including Make Predictions Answer the Question Benchmark Valid Information Avoid Fact Traps Milk the Question The Trap of Familiarity Eliminate Answers Tough Questions Brainstorm Read Carefully Face Value Prefixes Hedge Phrases Switchback Words New Information Time Management Contextual Clues Don t Panic Pace Yourself Answer Selection Check Your Work Beware of Directly Quoted Answers Slang Extreme Statements Answer Choice Families Along with a complete in depth study guide for your specific Virginia SOL exam and much more **Science Sol Practice/Test Preparation Grade 3** Hsp,2003-03-01 **Academy; a Weekly Review of Literature, Learning, Science and Art** ,1876 The Poetical gazette the official organ of the Poetry society and a review of poetical affairs nos 4 7 issued as supplements to the Academy v 79 Oct 15 Nov 5 Dec 3 and 31 1910 Resources in Education ,1979 *California Science Grade 3* Castle Rock Research Corp,2014-09 The SOLARO Study Guide is designed to help students achieve success in school It is a complete guide to be used by students throughout the school year for reviewing and understanding course content and for preparing for assessments The content in California Science Grade 3 is specifically aligned to California s prescribed curriculum for those who intend to have students complete elementary school science by the end of third grade To create this book teachers curriculum specialists and assessment experts have worked closely to develop the instructional pieces that explain each of the key concepts for the course The practice questions and sample tests have detailed solutions that show problem solving methods highlight concepts that are likely to be tested and point out potential sources of errors Enhanced treatment of concepts more practice sections and additional learning tools are found in the accompanying digital version of SOLARO which may be accessed through the web or on mobile devices **Boston Journal of Chemistry and Popular Science Review** ,1876 **Texas Science Grade 3** Castle Rock Research Corp.,2014-09 The SOLARO Study Guide is designed to help students achieve success in school It is a complete guide to be used by students throughout the school year for reviewing and understanding course content and for preparing for assessments The content in Texas Science Grade 3 is specifically aligned to the Texas state standards for those who intend to have students complete school sciences by the end of third grade Each Class Focus includes the following sections Matter Force Motion and Energy Organisms and Environments

Earth's Surface and Resources Solar System and Weather and Knowledge and Skills To create this book teachers curriculum specialists and assessment experts have worked closely to develop the instructional pieces that explain each of the key concepts for the course The practice questions and sample tests have detailed solutions that show problem solving methods highlight concepts that are likely to be tested and point out potential sources of errors The SOLARO Study Guide is a complete guide to be used by students throughout the school year for reviewing and understanding course content and for preparing for assessments Enhanced treatment of concepts more practice sections and additional learning tools are found in the accompanying online version of SOLARO which may be accessed through the web or on mobile devices

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