

3rd Grade Science SOLs

Study Guides & Review Worksheets

Soil



Components

Components

Water

Clay

Silt

Sand

Rock

Smallest particles hold water so contains the most water

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:** Dumping trash or chemicals into the environment.
- **Clearing large plots of land:** Removing trees and plants to make space for buildings or agriculture.
- **Over-fertilizing lawns:** Using too much fertilizer can harm soil and water.
- **Using oil, coal, or natural gas for power:** Burning fossil fuels releases pollutants into the air.

Natural Events

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

- **Forest fires:** Use controlled burns to clear land safely.
- **Tornadoes and earthquakes:** Use safe construction materials and building codes.
- **Coastal erosion:** Plant vegetation along shores to hold soil in place.
- **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 Pollution:** 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 for many living things.

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 close.

Gravity is a force that pulls everything towards Earth. An example is when an apple falls from a tree or a kite flies.

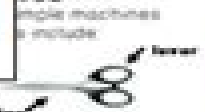


Objects to move, stop, or change direction or size.

Force



Force



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Science Sol Practice Test 3rd Grade

Yan Bai



Science Sol Practice Test 3rd Grade:

The Top Books of the Year Science Sol Practice Test 3rd Grade The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Science Sol Practice Test 3rd Grade : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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