

# 5th Grade Science SOLs

## Study Guides & Review Worksheets

### Geology

#### Terms to Know

- Erosion:** The breaking down and changing of rocks and minerals due to natural processes.
- Strata:** The process of soil, rocks, and other sediments being carried away or moved by natural forces, such as wind, water, and ice.
- Deposition:** When bits of soil, rocks, and other sediments settle in a new place.

#### Layers of the Earth



The Earth has layers. Pressure and temperature increase the deeper you go below the Earth's surface.

- Crust:** The thin, outermost layer of the Earth. It is composed of solid rock.
- Mantle:** The larger layer that is between the crust and the outer core. It is made of hot, semi-solid rock.
- Outer Core:** The liquid layer surrounding the inner core.
- Inner Core:** A solid sphere at the center of the Earth. It is made of materials such as iron and nickel.

#### Earth's Movements

Divergent Boundaries	Convergent Boundaries	Transform Boundaries
<ul style="list-style-type: none"> <li>Plates move apart from each other.</li> <li>Results in volcanoes and magma formation.</li> </ul> 	<ul style="list-style-type: none"> <li>Plates move toward each other.</li> <li>Results in earthquakes and magma formation.</li> </ul> 	<ul style="list-style-type: none"> <li>Plates slide past each other.</li> <li>Results in earthquakes.</li> </ul> 

#### Thermal Energy

Earth's thermal energy causes movement within the Earth. It creates currents in the mantle that move the Earth's tectonic plates. The plate movement you read about in earthquakes, volcanoes, and magma formation.



### Sources of Energy

#### Nonrenewable Energy

Nonrenewable energy sources are natural resources that cannot be replaced after they are used because they take millions of years to form.

**Examples:**

Fossil fuels are formed from the remains of ancient plants and animals.

Fossil fuels include:



Petroleum (oil)



Coal



Natural Gas

#### Air Pollution



#### Water Pollution



#### Conservation

Conservation is the careful use and protection of energy. Conservation ideas include:

- Turn off lights and electronics when leaving a room.
- Take shorter showers.
- Unplug unused devices.
- Use natural light.
- Use energy-efficient light bulbs.
- Recycle.
- Use energy-efficient appliances.
- Use public transportation.
- Walk or bike.
- Plant trees.



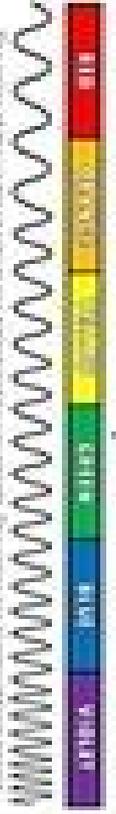
#### The Electromagnetic Spectrum

Electromagnetic waves travel at the speed of light. They are made of electric and magnetic fields that oscillate perpendicular to each other.

Examples of electromagnetic waves include:

- Gamma rays
- X-rays
- Ultraviolet light
- Visible light
- Infrared light
- Radio waves

#### The Visible Spectrum



The colors of the visible light spectrum are ordered by wavelength. The color with the longest wavelength is red, and the color with the shortest wavelength is violet.

#### Sound Waves

Sound waves are longitudinal waves. They travel through a medium by vibrating parallel to the direction of the wave.



#### Light Waves

Light waves are transverse waves. They travel through a vacuum by vibrating perpendicular to the direction of the wave.



# 5th Grade Science Outline Example Study Guide

**SA Adler**



## **5th Grade Science Outline Example Study Guide:**

The Top Books of the Year 5th Grade Science Outline Example Study Guide The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : 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 mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling 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 masterful and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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