

# 5<sup>th</sup> Grade Science SOLs

## Study Guides & Review Worksheets

### 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 preservation of energy, saving non-renewable resources and conserving the environment.

- Turn off lights and electronics
- Fix leaking pipes
- Take shorter showers
- Unplug unused devices
- Use natural light

- Live with water
- Replenish water resources in your summer
- Plant trees

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### Geology

#### Terms to Know

- **Weathering:** The breaking down and changing of rocks and minerals due to natural processes.
- **Erosion:** 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 longest 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

- Plates move apart from each other.
- Results in volcanoes and mountain formation.



##### Convergent Boundaries

- Plates move toward each other.
- Results in earthquakes and mountain formation.



##### Transform Boundaries

- Plates slide past each other.
- Results in earthquakes.



#### Thermal Energy

Earth's thermal energy causes movement within the Earth. It creates currents in the mantle that move the Earth's tectonic plates. This plate movement can result in earthquakes, volcanoes, and mountain formation.

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# Grade 5 Science Study Guide

**Science**



## **Grade 5 Science Study Guide:**

**California Science Grade 5** 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 5 is specifically aligned to California s prescribed curriculum for those who intend to have students complete elementary school science by the end of fifth grade Each Class Focus includes the following sections Physical Sciences Life Sciences Earth Sciences Water on Earth Earth Sciences Energy Earth Sciences Solar System and Investigation and Experimentation 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 [Florida Grade 5 Science Test Prep Guide](#)

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