

4th Grade Science SOLs

Study Guides & Review Worksheets

Plant & Animal Structure

Term to Know

- **Photosynthesis**, The process plants use to make food from sunlight and carbon dioxide.

Parts of a Plant



- **Leaves**, They are the part of the plant that photosynthesize.
- **Stem**, Helps support the plant and transport water and nutrients.
- **Flowers**, They are the part of the plant that reproduce.
- **Roots**, They anchor the plant in the soil and absorb water and nutrients.
- **Buds**, They are the part of the plant that will grow into new flowers.

Photosynthesis

Plants produce their own food through the process of photosynthesis. They use green pigment called **chlorophyll** along with carbon dioxide, water, and sunlight to produce food (sugar). Oxygen is released during photosynthesis.



Pollination

Pollination is the process where pollen is moved from the stamen of a flower to the pistil of another flower. This can be moved by wind, water, or animals. Some flowers attract pollinators.



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Ocean

Terms to Know

- **Continental Shelf**, The shallow, gently sloping underwater area near the coast.
- **Continental Slope**, A steep slope that connects the continental shelf to the deep sea.
- **Continental Rise**, A mound of sediment at the base of the continental slope.
- **Abyssal Plain**, A dark, flat area on the ocean floor that is thousands of feet below the ocean's surface.
- **Trench**, A narrow canyon in the ocean floor. Usually tens of thousands of feet deep.
- **Salinity**, The amount of salt dissolved in water.

The Ocean Floor



Tides & Currents

Tides are the regular rise and fall of sea levels. Tides are caused by the gravitational pull of the moon and the sun.

Ocean currents describe the motion of the water. Currents are caused by wind and temperature differences in the water.

Marine Food Web



Salinity

Salinity can be different in different parts of the ocean. Things that affect salinity include rates of evaporation, the depth of the water, melting icebergs, and the amount of runoff from nearby land.

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vs. Climate

Climate is the weather of a given area averaged over at least 30 years. The following describes climate:

- average wind
- average temperature
- average humidity
- average rainfall

Masses

These bring different weather conditions.

Low Pressure

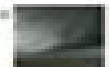
- strong winds
- stormy weather



Clouds

Cumulonimbus

- big, fluffy, and dark bottoms
- thunderstorms
- hail, rain, wind



Cirrus

- feathery
- fair weather
- rain or snow will fall soon



Extreme Weather

Thunderstorms

- warm, humid conditions
- heavy rain
- lightning and thunder

Hurricanes

- over warm, tropical water
- winds at least 74 miles per hour

Tornadoes

- form from thunderstorms
- change of wind direction
- air begins to rotate

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Grade 4 Science Study Guide

L Darling-Hammond



Grade 4 Science Study Guide:

Texas Science Grade 4 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 4 is specifically aligned to the Texas state standards for those who intend to have students complete school sciences by the end of fourth grade Each Class Focus includes the following sections Matter Force Motion and Energy Resources and Changes to Earth s Surface Weather and Water Cycle Organisms and Environments 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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New York State Grade 4 Elementary-Level Science Test Joyce Thornton Barry,Kathleen Cahill,2007-08-01 This brand new manual prepares fourth grade students in New York State to do well on the required Elementary Level Science Test The book presents four study units The Living Environment The Physical Sciences Process Skills and Performance Assessment The Living Environment unit covers plants animals genetics health topics ecology and humans in their environment The Physical Sciences unit introduces students to the basics of matter energy magnetism gravity simple machines astronomy and earth science Process Skills introduces children to the concept of scientific method and tools and reviews measuring processes such as graphing and analyzing data The Performance

Assessment unit deals with scientific activities appropriate to the fourth grade level The authors include practice and review questions with answers and two model tests with answers and explanations *Resources in Education* ,1997 Research in Education ,1971-12 Research Bulletin ,1922 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1964 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June *Science, Grade 4 Study Guide Consumable* Spanish Science,2007 **NEA Research Bulletin** ,1923

Science, Grade 4 Spectrum,2012-10-22 Spectrum Science is sure to captivate students interest with a variety of fascinating science information The lessons perfect for students in grade 4 strengthen science skills by focusing on data collection life cycles metals and alloys space techn

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