

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**, It helps the plant stand upright 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 leaves or 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 done 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

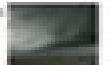
- strong winds
- stormy weather



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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Fourth Grade Science Study Guide

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1. Understanding the eBook Fourth Grade Science Study Guide
 - The Rise of Digital Reading Fourth Grade Science Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Fourth Grade Science Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Fourth Grade Science Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fourth Grade Science Study Guide
 - Personalized Recommendations
 - Fourth Grade Science Study Guide User Reviews and Ratings
 - Fourth Grade Science Study Guide and Bestseller Lists
5. Accessing Fourth Grade Science Study Guide Free and Paid eBooks
 - Fourth Grade Science Study Guide Public Domain eBooks
 - Fourth Grade Science Study Guide eBook Subscription Services
 - Fourth Grade Science Study Guide Budget-Friendly Options
6. Navigating Fourth Grade Science Study Guide eBook Formats

- ePub, PDF, MOBI, and More
 - Fourth Grade Science Study Guide Compatibility with Devices
 - Fourth Grade Science Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fourth Grade Science Study Guide
 - Highlighting and Note-Taking Fourth Grade Science Study Guide
 - Interactive Elements Fourth Grade Science Study Guide
 8. Staying Engaged with Fourth Grade Science Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fourth Grade Science Study Guide
 9. Balancing eBooks and Physical Books Fourth Grade Science Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fourth Grade Science Study Guide
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Fourth Grade Science Study Guide
 - Setting Reading Goals Fourth Grade Science Study Guide
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Fourth Grade Science Study Guide
 - Fact-Checking eBook Content of Fourth Grade Science Study Guide
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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