

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 carries 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.



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.

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

Science Grade And Study Guide

Ying Liu



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Table of Contents Science Grade And Study Guide

1. Understanding the eBook Science Grade And Study Guide
 - The Rise of Digital Reading Science Grade And Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Science Grade And 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 Science Grade And Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Science Grade And Study Guide
 - Personalized Recommendations
 - Science Grade And Study Guide User Reviews and Ratings

- Science Grade And Study Guide and Bestseller Lists
- 5. Accessing Science Grade And Study Guide Free and Paid eBooks
 - Science Grade And Study Guide Public Domain eBooks
 - Science Grade And Study Guide eBook Subscription Services
 - Science Grade And Study Guide Budget-Friendly Options
- 6. Navigating Science Grade And Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Science Grade And Study Guide Compatibility with Devices
 - Science Grade And Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Science Grade And Study Guide
 - Highlighting and Note-Taking Science Grade And Study Guide
 - Interactive Elements Science Grade And Study Guide
- 8. Staying Engaged with Science Grade And Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Science Grade And Study Guide
- 9. Balancing eBooks and Physical Books Science Grade And Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Science Grade And Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Science Grade And Study Guide
 - Setting Reading Goals Science Grade And Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Science Grade And Study Guide
 - Fact-Checking eBook Content of Science Grade And 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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