

# 4<sup>th</sup> 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.
- **Roots**, They anchor the plant in the soil and absorb water and nutrients.
- **Flowers**, They are the part of the plant that reproduce.
- **Buds**, They are the part of the plant that will become 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. It 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

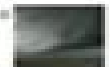
- strong winds
- stormy weather



#### 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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## **Table of Contents Study Guide Science 4th Grade**

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

- Study Guide Science 4th Grade Public Domain eBooks
- Study Guide Science 4th Grade eBook Subscription Services
- Study Guide Science 4th Grade Budget-Friendly Options
- 6. Navigating Study Guide Science 4th Grade eBook Formats
  - ePub, PDF, MOBI, and More
  - Study Guide Science 4th Grade Compatibility with Devices
  - Study Guide Science 4th Grade Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Study Guide Science 4th Grade
  - Highlighting and Note-Taking Study Guide Science 4th Grade
  - Interactive Elements Study Guide Science 4th Grade
- 8. Staying Engaged with Study Guide Science 4th Grade
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Study Guide Science 4th Grade
- 9. Balancing eBooks and Physical Books Study Guide Science 4th Grade
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Study Guide Science 4th Grade
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Study Guide Science 4th Grade
  - Setting Reading Goals Study Guide Science 4th Grade
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Study Guide Science 4th Grade
  - Fact-Checking eBook Content of Study Guide Science 4th Grade
  - 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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