

# 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.
- **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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## **Table of Contents Free Science Study Guides**

1. Understanding the eBook Free Science Study Guides
  - The Rise of Digital Reading Free Science Study Guides
  - Advantages of eBooks Over Traditional Books
2. Identifying Free Science Study Guides
  - 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 Free Science Study Guides
  - User-Friendly Interface
4. Exploring eBook Recommendations from Free Science Study Guides
  - Personalized Recommendations
  - Free Science Study Guides User Reviews and Ratings
  - Free Science Study Guides and Bestseller Lists
5. Accessing Free Science Study Guides Free and Paid eBooks
  - Free Science Study Guides Public Domain eBooks
  - Free Science Study Guides eBook Subscription Services
  - Free Science Study Guides Budget-Friendly Options

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