

# 4<sup>th</sup> Grade Science SOLs

## Study Guides & Review Worksheets

### 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 created 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.

### Plant & Animal Structure

#### Term to Know

- **Photosynthesis:** The process plants use to make oxygen.

#### Parts of a Plant



- **Stem:** Anchor and absorb nutrients.
- **Stem:** Helps water travel up to other parts of the plant.
- **Leaves:** They perform photosynthesis.
- **Flower:** They produce seeds.
- **Roots:** They anchor the plant in the soil.

#### 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. Flowers attract pollinators.



#### Weather 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

#### Weather Systems

These bring different weather conditions.

#### Low Pressure

- strong winds
- stormy weather



#### Clouds

#### Cumulonimbus

- big, fluffy, and dark bottoms
- thunderstorms
- hot, 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 of at least 74 miles per hour

#### Tornadoes

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

# Grade 1 physical Science Study Guide

**Anthony S. Fauci**



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## **Table of Contents Grade 1physical Science Study Guide**

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

6. Navigating Grade 1physical Science Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Grade 1physical Science Study Guide Compatibility with Devices
  - Grade 1physical Science Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Grade 1physical Science Study Guide
  - Highlighting and Note-Taking Grade 1physical Science Study Guide
  - Interactive Elements Grade 1physical Science Study Guide
8. Staying Engaged with Grade 1physical Science Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Grade 1physical Science Study Guide
9. Balancing eBooks and Physical Books Grade 1physical Science Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Grade 1physical Science Study Guide
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Grade 1physical Science Study Guide
  - Setting Reading Goals Grade 1physical Science Study Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 1physical Science Study Guide
  - Fact-Checking eBook Content of Grade 1physical 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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