

4th 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



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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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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 the plant.
- Leaves:** They perform photosynthesis.
- Root:** They anchor the plant.

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.



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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

Low Pressure

These bring different weather conditions.

- strong winds
- stormy weather



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

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Grade 4 Science Study Guide

Emilie Sanchez



Grade 4 Science Study Guide:

The book delves into Grade 4 Science Study Guide. Grade 4 Science Study Guide is a vital topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Grade 4 Science Study Guide, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Grade 4 Science Study Guide
- Chapter 2: Essential Elements of Grade 4 Science Study Guide
- Chapter 3: Grade 4 Science Study Guide in Everyday Life
- Chapter 4: Grade 4 Science Study Guide in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Grade 4 Science Study Guide. This chapter will explore what Grade 4 Science Study Guide is, why Grade 4 Science Study Guide is vital, and how to effectively learn about Grade 4 Science Study Guide.
3. In chapter 2, this book will delve into the foundational concepts of Grade 4 Science Study Guide. This chapter will elucidate the essential principles that must be understood to grasp Grade 4 Science Study Guide in its entirety.
4. In chapter 3, this book will examine the practical applications of Grade 4 Science Study Guide in daily life. The third chapter will showcase real-world examples of how Grade 4 Science Study Guide can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Grade 4 Science Study Guide in specific contexts. The fourth chapter will explore how Grade 4 Science Study Guide is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Grade 4 Science Study Guide. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Grade 4 Science Study Guide.

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