

# 4th Grade Science SOLs

## Study Guides & Review Worksheets

### Plant & Animal Structure

#### Term to Know

- Photosynthesis: The process plants use to make energy

#### Parts of a Plant



- Roots: Anchors and stores nutrients
- Stem: Helps to transport water and nutrients
- Leaves: The part of the plant where energy is made
- Flowers: The part of the plant where seeds are made

#### 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 (energy).

Oxygen is released during photosynthesis.

#### Pollination

Pollination is the process where pollen is moved from one flower to the plant of another. It can be moved by wind, water, or animals. Insects 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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Wind speed



Rainfall

### 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

### Winds

These bring different weather conditions.

#### Low Pressure

- strong winds
- stormy weather



### Winds

#### Clouds

- big, fluffy, and dark bottoms
- thunderstorms
- heat, rain, wind



#### Clouds

- feathery
- fair weather
- light or white with blue bases



### Extreme Weather

#### Thunderstorms

- warm, humid conditions
- heavy rain
- lightning and thunder

#### Hurricanes

- over warm, tropical water
- winds of least 74 miles per hour

#### Tornadoes

- Form from thunderstorms
- change of wind direction
- up to 200 mph

# Ocean Study Guide For 4th Grade Science

**Marco Cascella**

## **Ocean Study Guide For 4th Grade Science:**

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

1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Ocean Study Guide For 4th Grade Science
  - Chapter 2: Essential Elements of Ocean Study Guide For 4th Grade Science
  - Chapter 3: Ocean Study Guide For 4th Grade Science in Everyday Life
  - Chapter 4: Ocean Study Guide For 4th Grade Science in Specific Contexts
  - Chapter 5: Conclusion
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5. In chapter 4, the author will scrutinize the relevance of Ocean Study Guide For 4th Grade Science in specific contexts. The fourth chapter will explore how Ocean Study Guide For 4th Grade Science is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Ocean Study Guide For 4th Grade Science. The final chapter will summarize the key points that have been discussed throughout the book.

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

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### **Ocean Study Guide For 4th Grade Science Introduction**

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