

4th 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 main part of the plant that make food.
- Stem.** It helps the plant stand upright and carries water and nutrients.
- Flowers.** They are the part of the plant that make seeds.
- 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

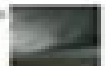
- strong winds
- stormy weather



Clouds

Cumulonimbus

- big, fluffy, and dark bottoms
- thunderstorms
- heat, 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
- or begins to rotate

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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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- 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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