

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

## Study Guides & Review Worksheets

### Plant & Animal Structure

#### Terms to Know

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

#### Parts of a 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 male part of a flower to the female part of another flower. It can be moved by wind, water, or animals. It allows a flower to make new seeds.



### Ocean

#### Terms to Know

- Continental Shelf:** The shallow, gently sloping underwater area near the coast.
- Continental Slope:** A steep area that connects the continental shelf to the deep sea.
- Continental Rise:** A mound of sediment at the base of the continental slope.
- Deep Sea:** 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 evaporation, the depth of the water, melting icebergs, and the amount of runoff from nearby land.

#### vs. Climate

**Climate** is the weather of a given area averaged over at least 30 years. The following shows that climate is the average of weather over a long period of time.

#### Weather

Weather is the condition of the atmosphere at a given time and place. It includes temperature, humidity, and wind. Weather can change quickly.

#### Clouds


Clouds are collections of tiny water droplets or ice crystals that are suspended in the air. They are formed by condensation. There are three main types of clouds: cumulus, stratus, and cirrus.

#### Extreme Weather

**Thunderstorms** are storms with thunder and lightning. They can be dangerous. **Hurricanes** are large, powerful storms that can cause destruction. **Tornadoes** are violent, rotating columns of air that can cause damage.

# Ncdpi Science Sixth Grade Study Guide

**Educational Resources Information  
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## **Ncdpi Science Sixth Grade Study Guide:**

*Resources in education* ,1984-09      **Resources in Education** ,1997      The National Union Catalog, Pre-1956 Imprints  
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**1928-1948** John David Ewen McAulay,1948      **Public Education and the Study of Religion** Mehdi Nakosteen,1962  
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