

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



- **Roots**, Anchor the plant and absorb water and nutrients.
- **Stem**, Helps the plant stand upright and transport water and nutrients.
- **Leaves**, They perform photosynthesis.
- **Flowers**, They produce seeds.

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. 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

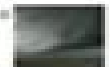
- strong winds
- stormy weather



Clouds

Cumulonimbus

- big, fluffy, and dark bottoms
- thunderstorms
- hail, 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
- air begins to rotate

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Nc 4th Grade Science Study Guide

RC Schank



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2011 meaning that 75 percent or more of their enrolled students qualified for free or reduced price lunch up from about one in eight in 2000 In school year 2009 10 some 3.1 million public high school students or 78.2 percent graduated on time with a regular diploma And in 2011 about 68 percent of recent high school completers were enrolled in college the following fall Meanwhile the status dropout rate or the percentage of 16 to 24 year olds who are not enrolled in school and do not have a high school diploma or its equivalent declined from 12 percent in 1990 to 7 percent in 2011 At 4 year colleges in 2011 nearly 90 percent of full time students at public and private nonprofit institutions were under the age of 25 However only about 29 percent of full time students at private for profit colleges were while 39 percent were between the ages of 25 to 34 and another 32 percent were 35 and older About 56 percent of male students and 61 percent of female students who began their bachelor s degree in the fall of 2005 and did not transfer had completed their degree by 2011 In that year there were 1.7 million bachelor s degrees and over 700 000 master s degrees awarded *North Carolina Education* ,1961 Who's who in American Education ,1990

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