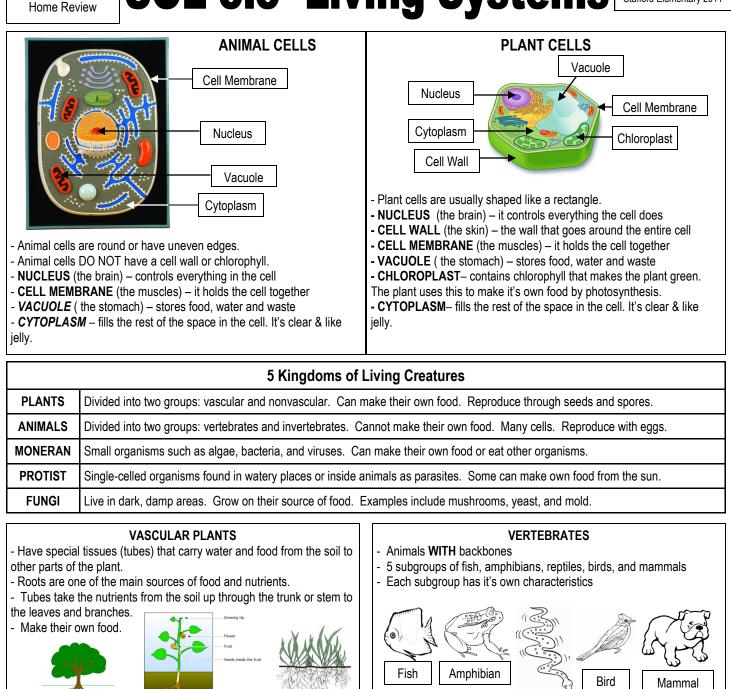


# **SOL 5.5- Living Systems**

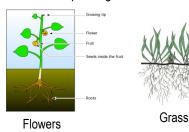
Created by Shannon Danz Stafford Elementary 2011



Trees

5th Grade

Refrigerator Card for



### NONVASCULAR PLANTS

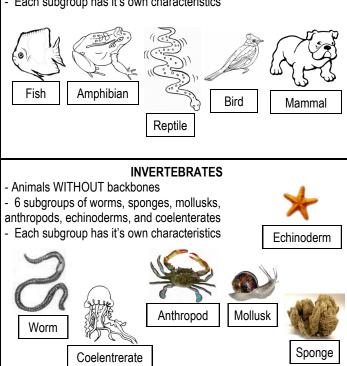
- Do not have tubes to carry nutrients and water from the soil.
- Plants act like sponges to soak up water that forms on them.
- Plants are very small and like to grow in damp, shady areas.



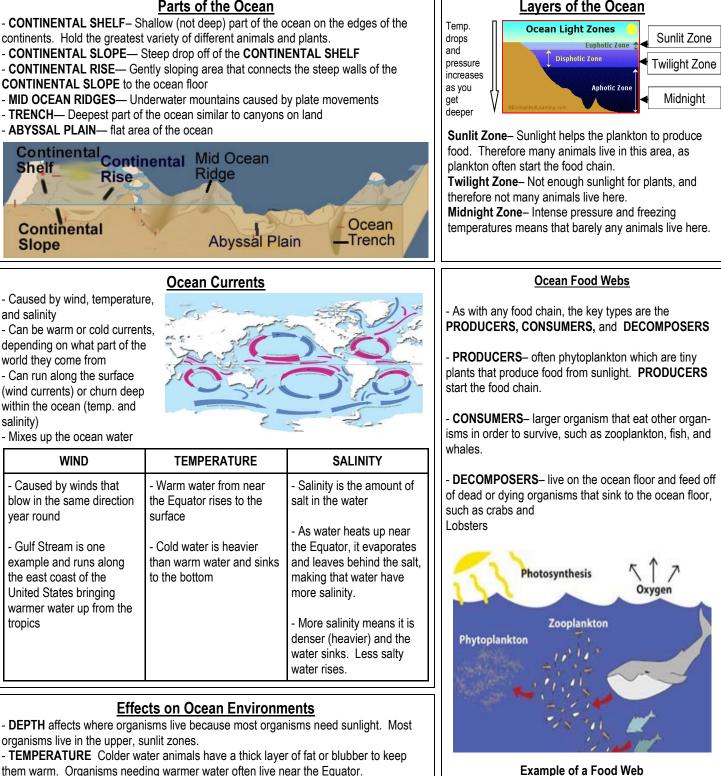


LIchens





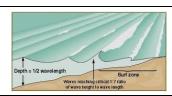
#### 5th Grade Refrigerator SOL 5.6- Oceans Created by Shannon Danz Card for Home Review Stafford Elementary 2011 Lavers of the Ocean Parts of the Ocean



- SALINITY -the amount of salt in the ocean varies from place to place and during the The phytoplankton make food from the sun and are eaten by the zooplankton which are eaten by the fish times of the year. Runoff from fresh water (such as rivers) also affects how much salt is

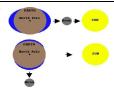
- WAVES are caused by the water being pushed upon the shore. When the water hits the shallow beaches and land, the water builds up and falls over itself, often causing EROSION of the beaches.

in the water.



- TIDES are caused by the pull of the Moon's gravity. Tides occur every 12 hours. There are high tides (lots of water) and low tides (lower water levels).

which are eaten by the whale.



# 5th Grade Refrigerator Card for Home Review SOL 5.7- Earth

Layers of the Earth Crust- thinnest and outermost layer made up of rocks, soil, and water. Mantle- thickest layer made up of thick magma that flows beneath the crust Inner Core- solid Outer Core- hot laver with intense layer of melted pressure rock

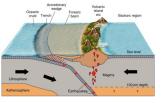
**PLATE TECTONICS**—Earth's crust is divided up into massive parts (plates) that float on top of the mantle and can move around. This constant moving is called **CONTINENTAL DRIFT.** 

The parts where the plates touch is called a **FAULT**. Plates bump, scrape, and push against each other at the **FAULTS** which causes **EARTHQUAKES** and **VOLCANOES**.

## There are 3 types of plate boundaries.

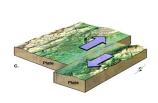
**DIVERGENT**– plates move apart. Usually found under the ocean and causes magma to rise up, cool, and form ridges.

CONVERGENT – plates push together. Sometimes one plate starts to go on top of another plate. Can form mountain ranges (and VOLCANOES) and can also cause trenches deep down



TRANSFORM – plates slide, slip, and grind past each other. The sudden release of energy causes EARTHQUAKES.

on the ocean floor.



WEATHERING – breaking down rock into smaller pieces. Usually caused by wind, rain, and temperature.

**EROSION**– moving those smaller bits and pieces of rock to another location. Usually caused by water and wind,

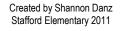


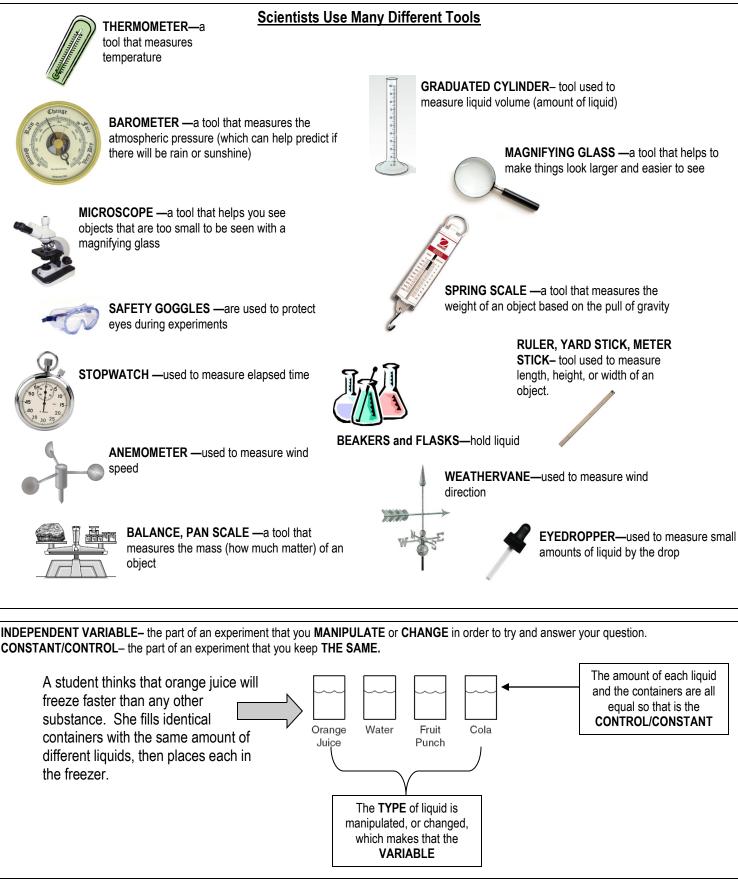
- / - Eà	art		Stafford Elementary 2011	
There are 3 different types of rocks found on the Earth				
Igneous Rocks	Sedimentary Rocks		Metamorphic Rocks	
<ul> <li>Formed when hot, melted rock (lava) cools</li> <li>Often found near volcanoes</li> </ul>	<ul> <li>Formed when</li> <li>LAYERS of dirt and sediment build up over time</li> <li>Layers are</li> <li>COMPRESSED together</li> <li>Fossils are found in this type of rock</li> </ul>		- Formed thanks to HEAT AND PRESSURE beneath the Earth's surface	
	Sedimenta Sedimenta	Participant for a state of the	Nemerite           Image: bit of the second	
INERALS are solid         naterial from the Earth's         rust made up of one or         nore elements. Common         vpes are gold and silver.         image: the second seco	Metama	pr pr g	Heat essure fuids Sedimentary Weathering Erosion	
Characteristics of R	Rocks and Mi	inerals Help	Us Tell Them Apart	
COLOR		What color is it?		
LUSTER		Is it shiny or dull? How does light		

Created by Shannon Danz

COLOR	What color is it?	
LUSTER	Is it shiny or dull? How does light bounce off of it?	
STREAK	What color powder is left when it is rubbed on a hard surface?	
HARDNESS	How hard is it? (does it break easily?)	
CLEAVAGE	When it breaks, does it break into flat sheets?	
FRACTURE	When it breaks, does it have a jagged edge?	
CRYSTAL SHAPE	What shape are the crystals?	







For the steps in the SCIENTIFIC PROCESS and more information about the units of measure that scientists use, refer to the Refrigerator Card for 4.1.