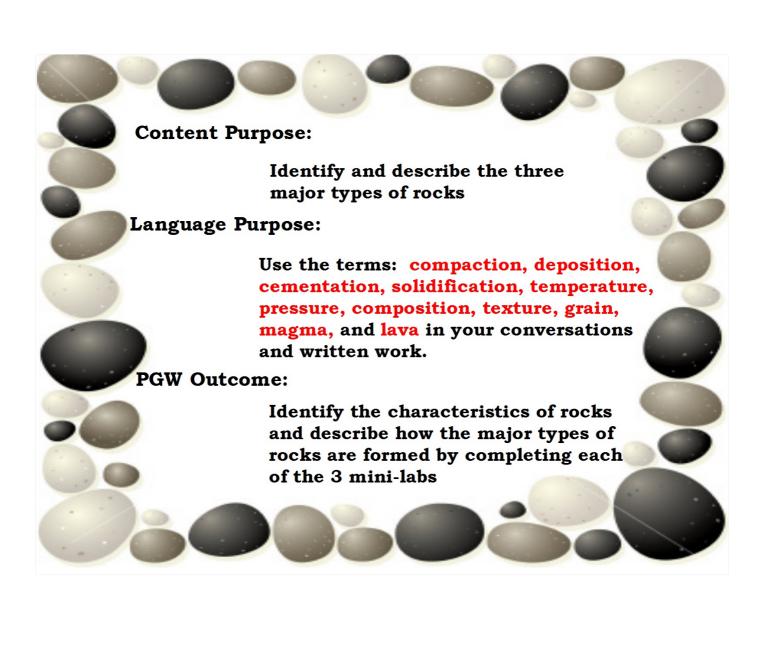
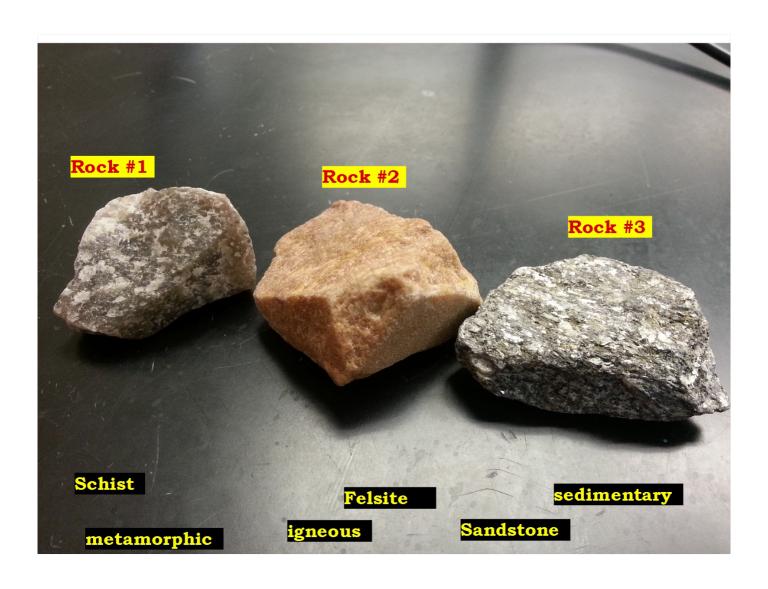
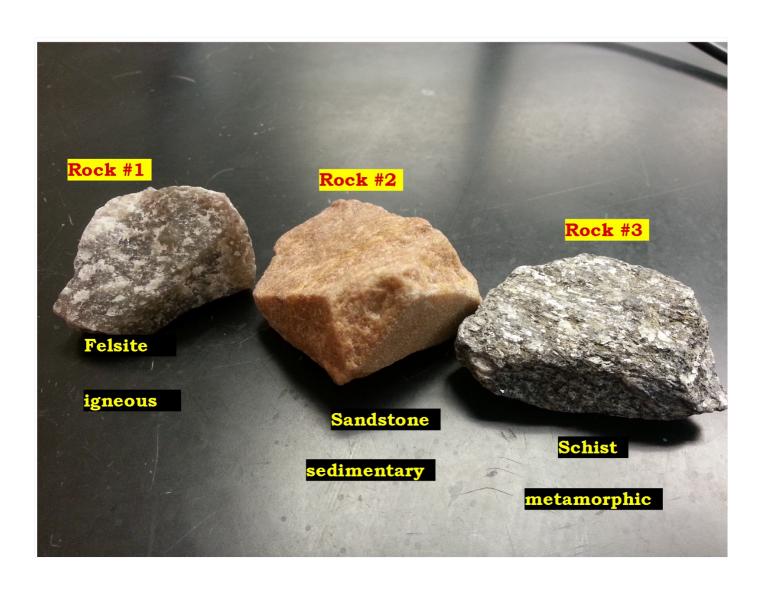
Day 1-2







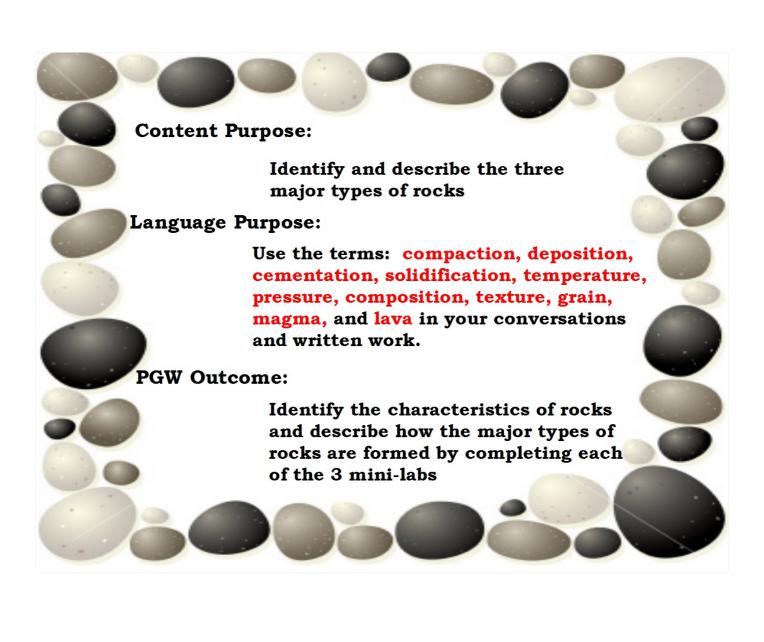


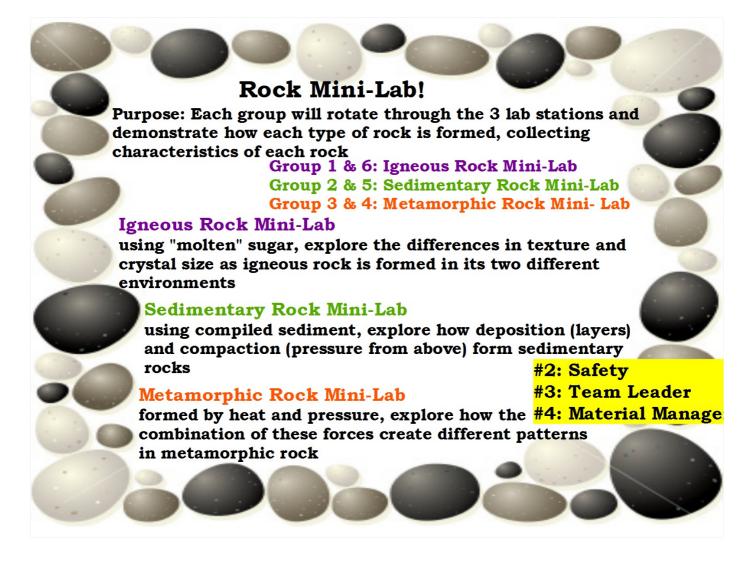
Igneous Rock Notes for ISN:	
Igneous rock forms when	
Igneous rocks can be subdivided according they formed.	rding to the environments
Intrusive Igneous Rock- magma cools and solidifies within the earth crystals that have had time to form.	EXTRUSIVES: quick cooling, tiny crystals or glassy lgneous intrusion
Extrusive Igneous Rock- lava flows from the earth (sometimes explosively), creating, glassy crystals.	INTRUSIVES: slow cooling, large crystals Magma chamber

Sedimentary Rock Notes for ISN

	m from particles of and are small.	rocks		
Sediment is the pieces of rock that result when other rocks are broken down. Sedimentary rocks are made mostly of				
Sedimentary rocks are	e formed through layers	of sediment deposited		
	Redwall Limestone Temple Butte Formation Muave Limestone Bright Angel Shale	causes sediment to flow downhill, and form layers. The layers look different because of the different		
	Tapeats SS Precambrian metamorphic rocks	being layered.		

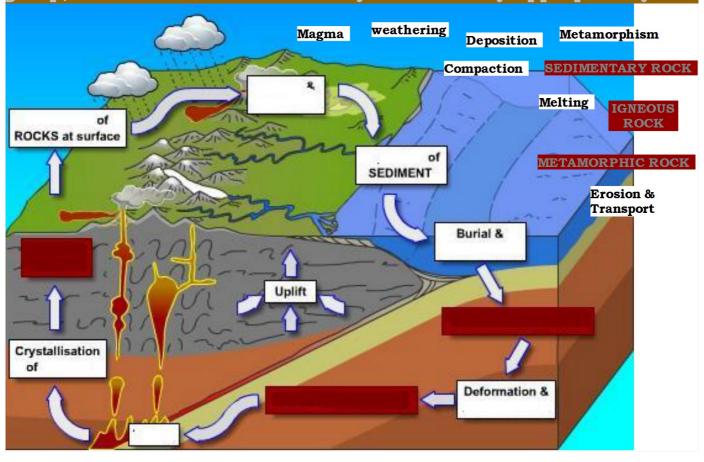
Metamorphic Rock Notes for ISN:				
_	ted when rock is subjected to (or both).			
becomes deformed as metamorphic rock is created.				
Higher pressure and higher temperature changes mineraland, changing the make-up of the rock.				
	Increasing temperature			
Rock slowly	increasing temperature			
when subjected to	Shale Hornfels			
increased As heat and pressure				
	Low grade Schist			
increased, rock If temperature keeps increasing,	Gneiss Migmatite			
increasing,	Increasing metamorphic grade Blueschist			
eventually the rock	Blueschist Blueschist			
will and	Biueschist			
become magma.	High grade			

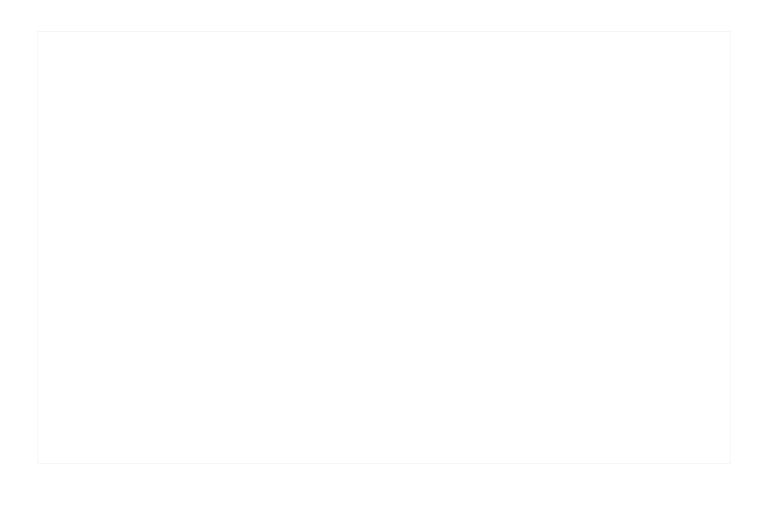


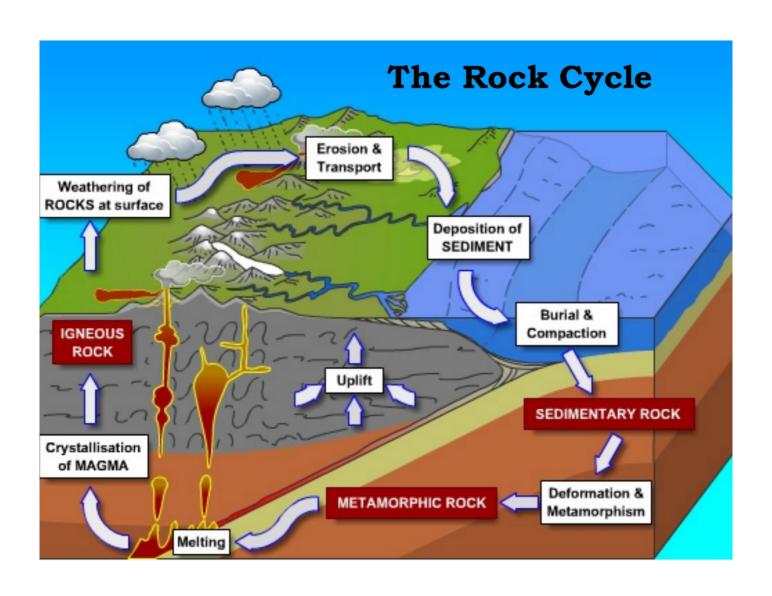




Bellwork: Using what you learned about each of the 3 major types of rock; igneous, sedimentary and metamorphic; discuss with your group, and fill in the terms where you think they appropriately fit.







Content Purpose:

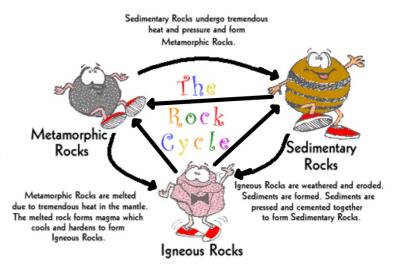
Identify and illustrate all the pathways of the rock cycle and the processes involves in the changes from one type of rock to another.

Language Purpose:

Use the terms; igneous, metamorphic, sedimentary, texture, grain, magma, lava, weathering and uplift in your written work

PGW Outcome:

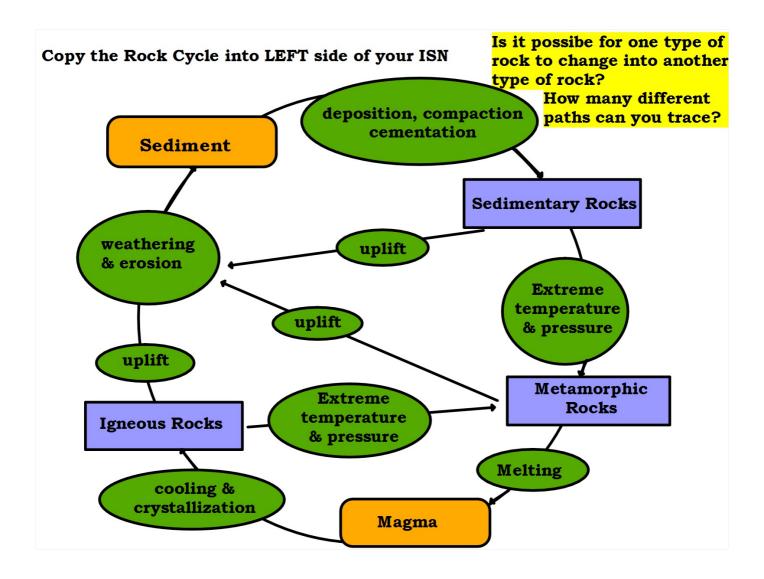
As a group, students will create a round table narrative story from a rock's perspective as it travels through the life cycle; demonstrating the structure and characteristics of each phase of the rock cycle



Notes for your ISN (right side!)

Some Rock Cycle processes occur only beneath Earth's surface, such as those that involve extreme temperature, pressure and melting.

Uplift- a tectonic process that forces these rocks onto Earth's (out of the ground). On the surface, rocks can change due to natural processes such as		
•		
magma- molten rock	the earth's surface	
lava- molten rock fr	om the earth's surface	
A rock is made up of grains which can be mineral crystals or other solid fragments.		
weathering-	into smaller pieces.	



Kagan Activity: Round Table "My Group Narrative of the Rock Cycle"

Objective: You will make a story as a group, building on one-another's sentences, and work through the rock cycle from the rocks' perspective.

Instructions:

- Each person grab a different color of colored pencil
- Starting with person #1 chose which type of rock you'd like to start with (igneous, sedimentary, metamorphic).
- Person #1 writes one sentence from the rock's perspective: what do they see? what is happening? what does the rock look like?
- After person #1 writes ONE sentence, they pass the paper on to #2
 I'm a slow-moving lava flow on the island of Honolulu, it's a lot chillier here out in the air than it was inside the Earth.
- person #2, who takes their colored pencil and writes ONE sentence building on the previously written information:

While I was still hot, I made my way down to the sea where the waves knock against me all day, every day.

- Then pass the paper on to the next person #3 and so on.
 - I've been shrinking. Over a few hundred years, I've worn away into the ocean, scattering the ocean floor as a tinier version of myself.
- Each person writes a sentence in the story until all parts of the rock cycle have been covered and the rock resumes it's original form.
 - Some coral and other parts of the volcano have layered on top of me, making me feel chlosterphobic and squished. AND SO ON...

Kagan Round Table Rock Cycle Narrative

Criteria:

- rock must become metamorphic, igneous and sedimentary at least once
- may choose any path to follow in rock cycle
- must go through weathering and melting
- use appropriate, descriptive terms