## Igneous Rocks Reference Sheet - glue this into your science notebook

What are Igneous Rocks?	<u>New Vocabulary</u>
	1) Lava - molten material that is found outside
gneous Rocks are rocks that form when molten	the volcano (after a volcanic eruption)
melted) material cools and hardens.	<ol> <li><u>Magma -</u> molten material that remains inside the Earth.</li> </ol>
Igneous Rocks are classified by how they form.	<ol> <li>Extrusive Igneous Rocks - Igneous rocks that form when they cool on the Earth's surface and</li> </ol>
/olcanoes and magma chambers are important to the	produce fine grain minerals or no mineral grain
ormation of Igneous Rocks.	<ol> <li>Intrusive Igneous Rocks: Igneous rocks that form when they cool inside the Earth's surface</li> </ol>
<i>Common Igneous Rocks</i> : Basalt, Granite, Gabbro,	and produce coarse grain minerals
Rhyolite, Andesite	5) <u>Coarse grain texture:</u> large crystals/minerals
	6) Fine grain texture: small crystals/minerals
	7) <b>Glassy texture:</b> no visible crystals/minerals
	This is an image of a volcano.
Lava flow	Igneous Rocks that cool inside the volcano are called
	INTRUSIVE IGNEOUS ROCKS. They cool very
	<b><u>SLOWLY</u> inside the Earth</b> . They cool slowly which
	allows time for minerals to "grow" larger than if
	they were to cool outside the Earth.
	Examples of Intrusive Igneous Rocks: Gabbro and
	Granite
	Igneous Rocks that cool outside the volcano are
	Igneous Rocks that cool outside the volcano are called <u>EXTRUSIVE IGNEOUS ROCKS</u> . They cool
Magma	called <u>EXTRUSIVE IGNEOUS ROCKS</u> . They cool

## Additional Facts about Igneous Rocks

- 1) Pumice, Obsidian and Scoria are all Extrusive Igneous Rocks. They cool so fast, no minerals form at all. Obsidian is so smooth it is often called volcanic glass. Pumice and Scoria are so light, they float in water!
- 2) The ocean floor is made mostly of an extrusive igneous rock called BASALT.
- 3) **GRANITE** is one of the most common Igneous rock type making up the continents.
- 4) <u>Mafic Igneous rocks</u> are dark or black in color (LOW in the mineral Silica), <u>Felsic Igneous rocks</u> are light in color (HIGH in the mineral Silica).
- 5) Fossils are not found in Igneous Rocks because any living or dead organism would be destroyed by the molten matereial (lava or magma).