


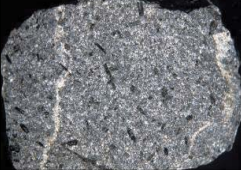

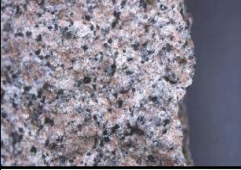















Texture	Appearance	Other Characteristics	Rock Name	Where/How formed	Rock Type
Very small crystals (can't see without hand lens)		May feel powdery	Rhyolite	Erupted by volcanoes	IGNEOUS ROCKS Crystals fit together ("interlocking") randomly
			Andesite	Erupted by volcanoes	
		May contain large green or white crystals	Basalt	Erupted by volcanoes	
Medium to large crystals (can see without hand lens)			Granite	Volcanic; cools underground	
		"Salt-and-pepper" appearance	Diorite	Volcanic; cools underground	
		May look "greasy"	Gabbro	Volcanic; cools underground	
Glassy		Translucent	Obsidian	Erupted by volcanoes	
Frothy / spongelike		Very light, floats in water	Pumice	Erupted by volcanoes	
		Light but won't float	Scoria	Erupted by volcanoes	

IMAGE CREDITS:

rhyolite - Earth Science World Image Bank: i8bhqw © Dr. Richard Busch
andesite - Earth Science World Image Bank: idchc7 © Dr. Richard Busch
basalt - Dr. Jessica Ball
granite - Earth Science World Image Bank: i8bi3k © Dr. Richard Busch
diorite - Courtesy USGS http://libraryphoto.cr.usgs.gov/cgi-bin/show_picture.cgi?ID=ID%20Huber%20N.K.%20%2013ct
gabbro - Earth Science World Image Bank: idchaw © Dr. Richard Busch
obsidian - Earth Science World Image Bank: i8bhxy © Dr. Richard Busch

pumice - Dr. Jessica Ball
scoria - Dr. Jessica Ball
conglomerate - Earth Science World Image Bank: i8biik © Dr. Richard Busch
sandstone - Earth Science World Image Bank: idch02 © Dr. Richard Busch
shale - Dr. Jessica Ball
limestone - Dr. Jessica Ball
chert - Earth Science World Image Bank: ha48j1 © Dr. Richard Busch

slate - Dr. Jessica Ball
schist - Dr. Jessica Ball
gneiss - Earth Science World Image Bank: ha48us © Dr. Richard Busch
marble - Earth Science World Image Bank: ha48wd © Dr. Richard Busch
quartzite - Earth Science World Image Bank: i8bihh © Dr. Richard Busch
 Rock Chart © 2016 American Geosciences Institute

Texture		Appearance	Other Characteristics	Rock Name	Where/How formed	Rock Type
Large grains / fragments			Contains pieces of other rocks	Conglomerate/ Breccia	Rivers, streams	SEDIMENTARY ROCKS Grains cemented together, may be layered or contain fossils
Sand sized grains / fragments			May contain fossils	Sandstone	Beaches, lakes, rivers, streams	
Very small grains - cannot see without hand lens			May contain fossils	Shale	Lakes, basins, deep ocean	
			Fizzes in vinegar (contains calcium carbonate), may contain fossils	Limestone	Shallow ocean	
			Breaks like glass (curved edges)	Chert	Shallow ocean	
Layered	Very small crystals		Sounds like ceramic when tapped	Slate	Metamorphosed shale	
	Medium to large crystals		Sparkles, shiny	Schist	Metamorphosed slate, shale	
	Small to large crystals		Alternating bands of light and dark crystals	Gneiss	Metamorphosed schist, granite	
No layers	Small to large crystals		Fizzes with vinegar when scratched (contains calcium carbonate)	Marble	Metamorphosed limestone	
	No separate crystals		Looks "sugary"	Quartzite	Metamorphosed sandstone	