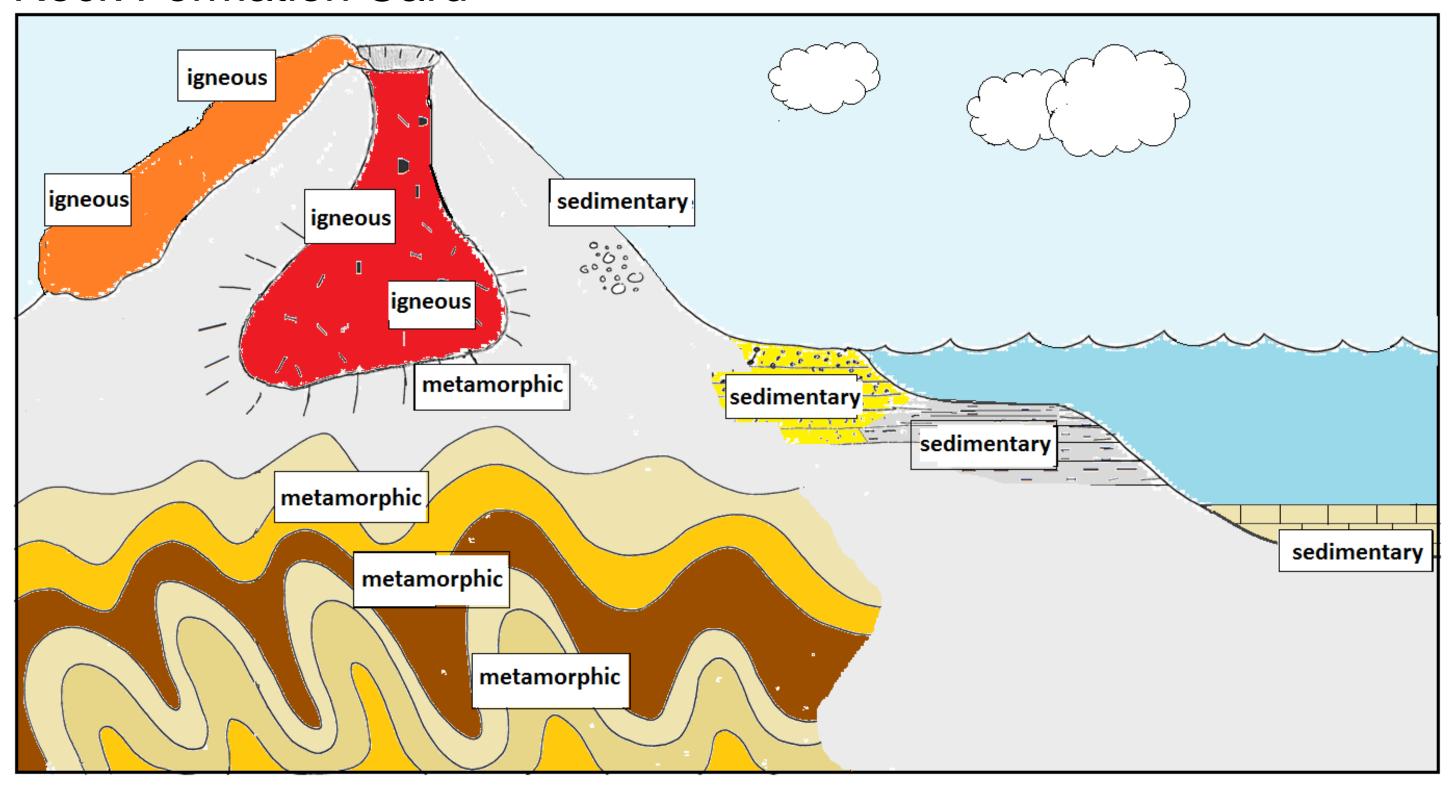
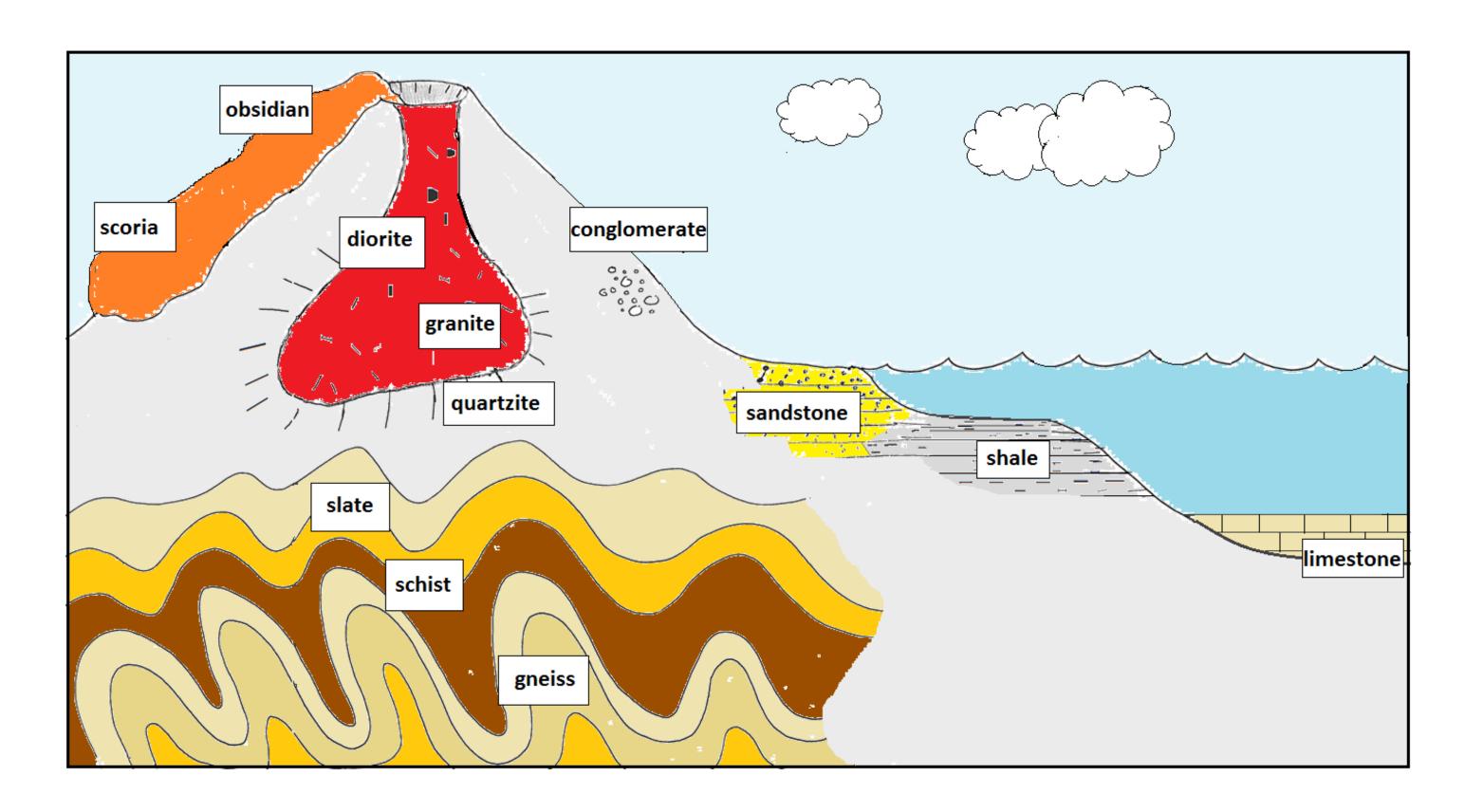
Rock Formation Card





Discovering STEM Program

Identifying Rock Types Activity (upper elementary)

Rock Types	Rock Sample Numbers											
I=igneous S=sedimentary M=metamorphic	1	2	3	4	5	6	7	8	9	10	11	12
Using above properties determine the Rock Type	I	М	S	S	S	S	I	М	ı	М	ı	М

Rock Identification in baggies as follows:

1.	granite	5.	shale	diorite
2.	gneiss	6.	sandstone	10. slate
3.	conglomerate	7.	obsidian	11. scoria
4.	limestone	8.	quartzite	12. schist

Rock type	Classification	Identify	Rock Name	
	(how formed)	grain size	colors	
Igneous	Intrusive: cools slower	crystals bigger than small sand	black/white or pink/black/white	granite
	underground, crystals big enough to see	grains	black/white	diorite
	Extrusive: cools quickly above ground, crystals too small	crystals too small to see & gas bubble holes	usually black but can be reddish if oxides	scoria
	to see	no crystals	usually black	obsidian
Sedimentary	Clastic: sediment grains	small individual grains	white, tan or reddish	sandstone
	pressed or rock fragments cemented back	very small grains, can't see them	dark gray to black	shale
	together	large and small rounded grains	various individual grain colors	conglomerate
	Chemical: dissolved minerals precipitate out of water	very small, usually can't see grains	usually white or tan	limestone
Metamorphic	Foliated: rocks become	very small, thin layers	light gray or black	slate
	layered due to high heat and	very small with thicker layers	alternating layers with different colors	gneiss (nice)
	pressure	flattened layers that sparkle	usually light white/silver or dark black/green	schist
	Nonfoliated: rocks are heat altered, or chem. reaction	crystal edges blend together, usually don't see individual crystals	white color or pink/purple	quartzite

Discovering STEM Program

Identifying Rock Types Activity (upper elementary)

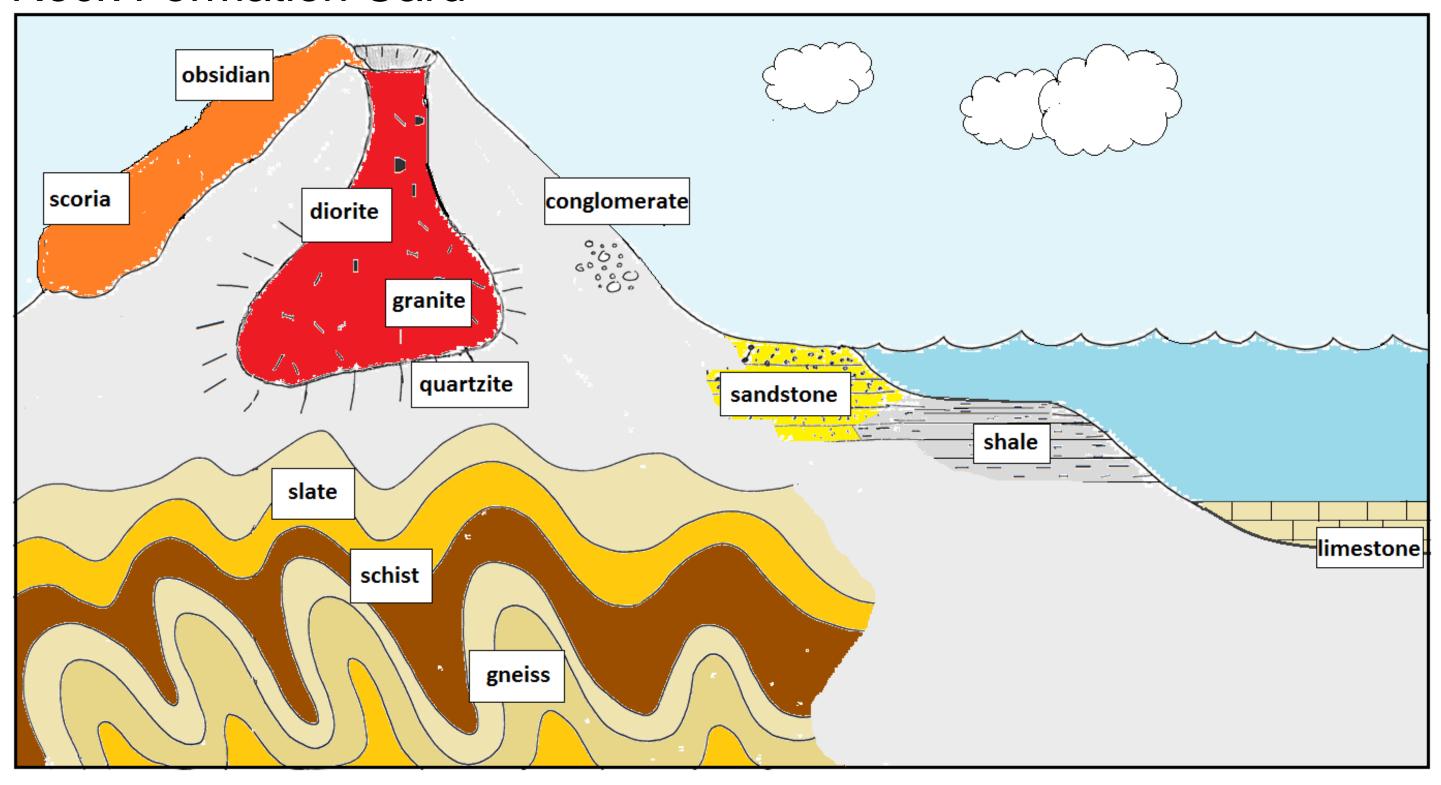
Rock Types	Rock Sample Numbers												
I=igneous S=sedimentary M=metamorphic	1	2	3	4	5	6	7	8	9	10	11	12	
Using above properties determine the Rock Type	I	М	S	S	S	S	I	М	ı	М	I	М	

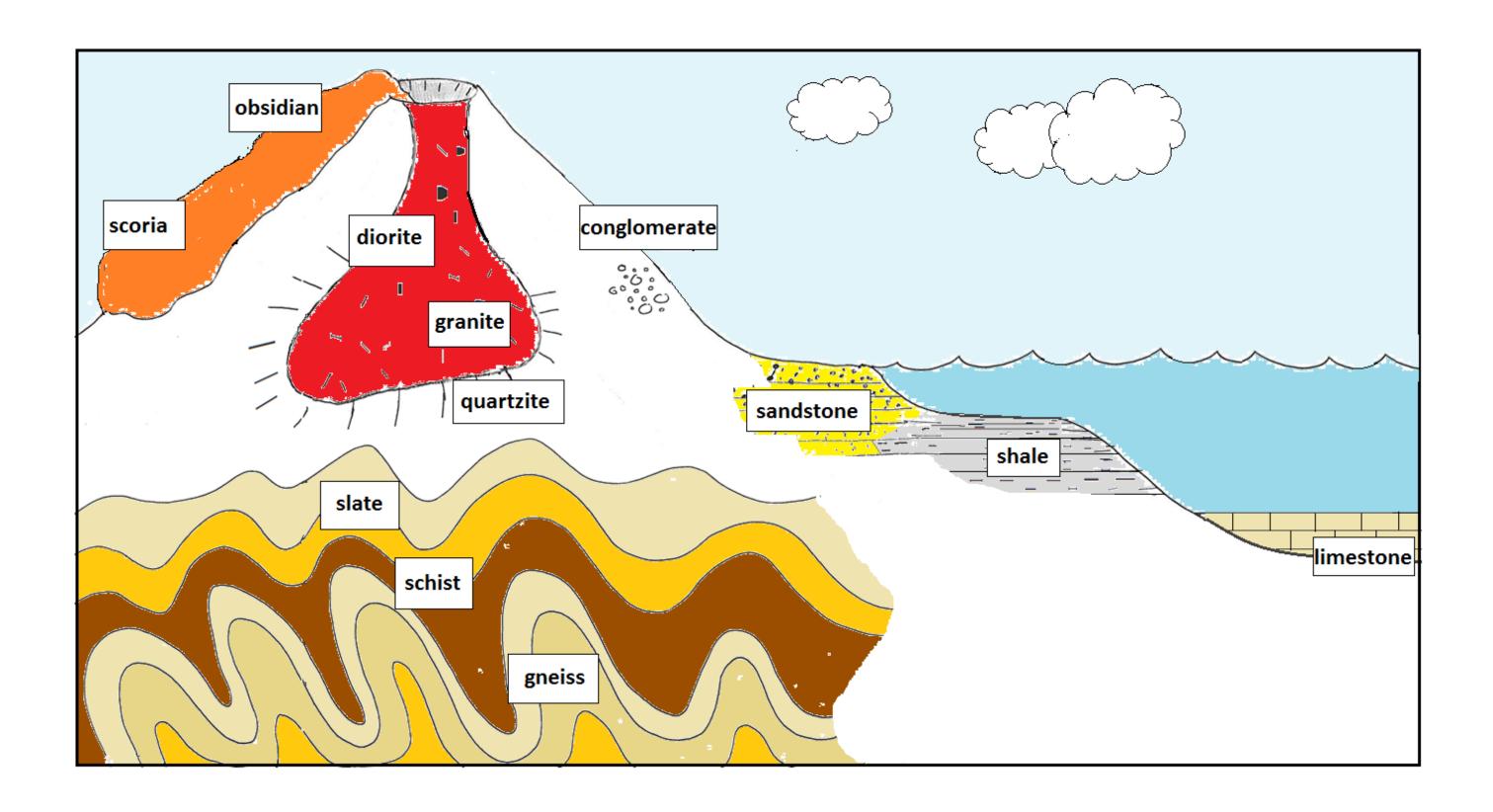
Rock Identification in baggies as follows:

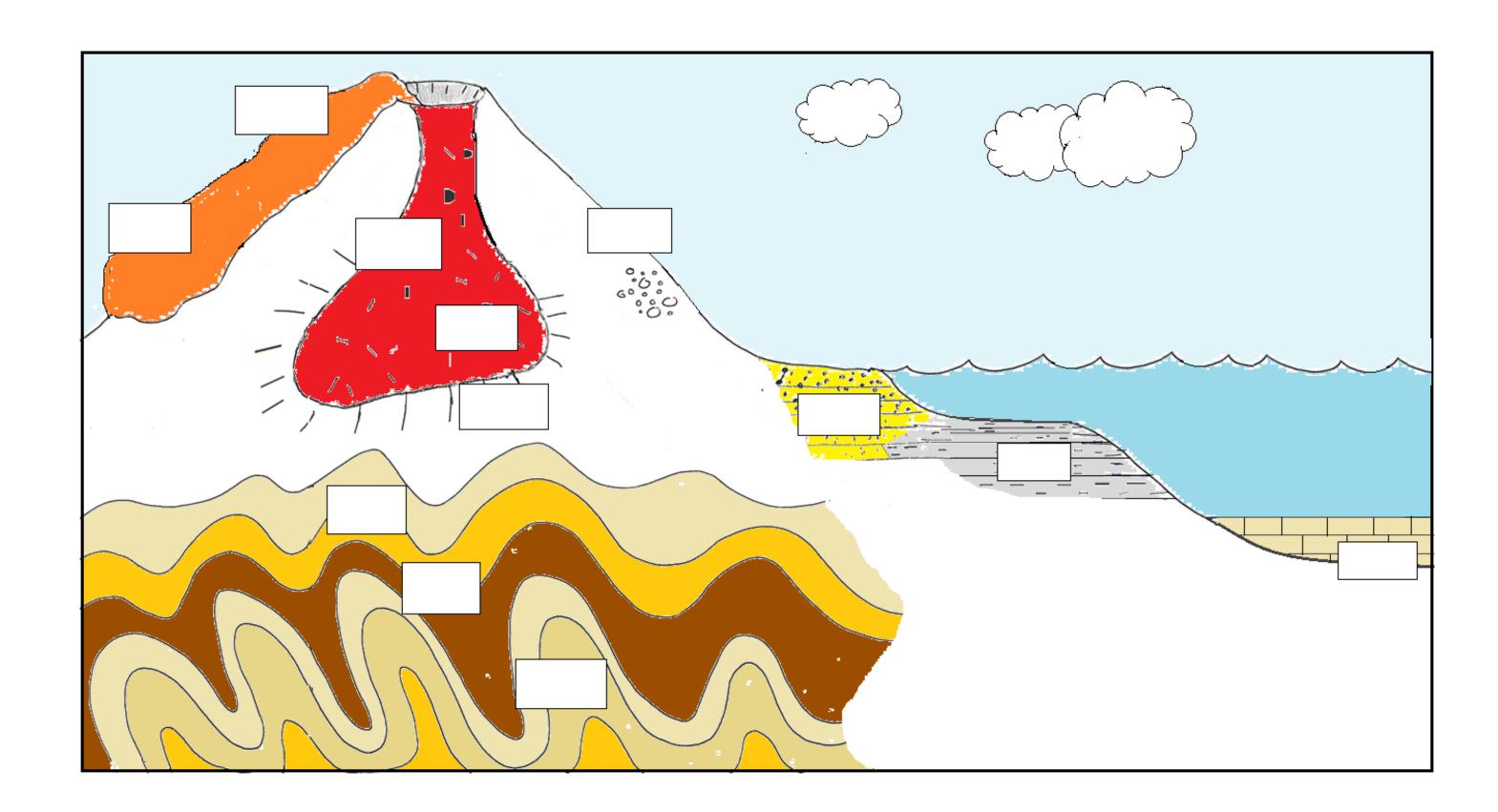
1.	granite	5.	shale	9. c	diorite
2.	gneiss	6.	sandstone	10.s	slate
3.	conglomerate	7.	obsidian	11.s	coria
4.	limestone	8.	quartzite	12.s	schist

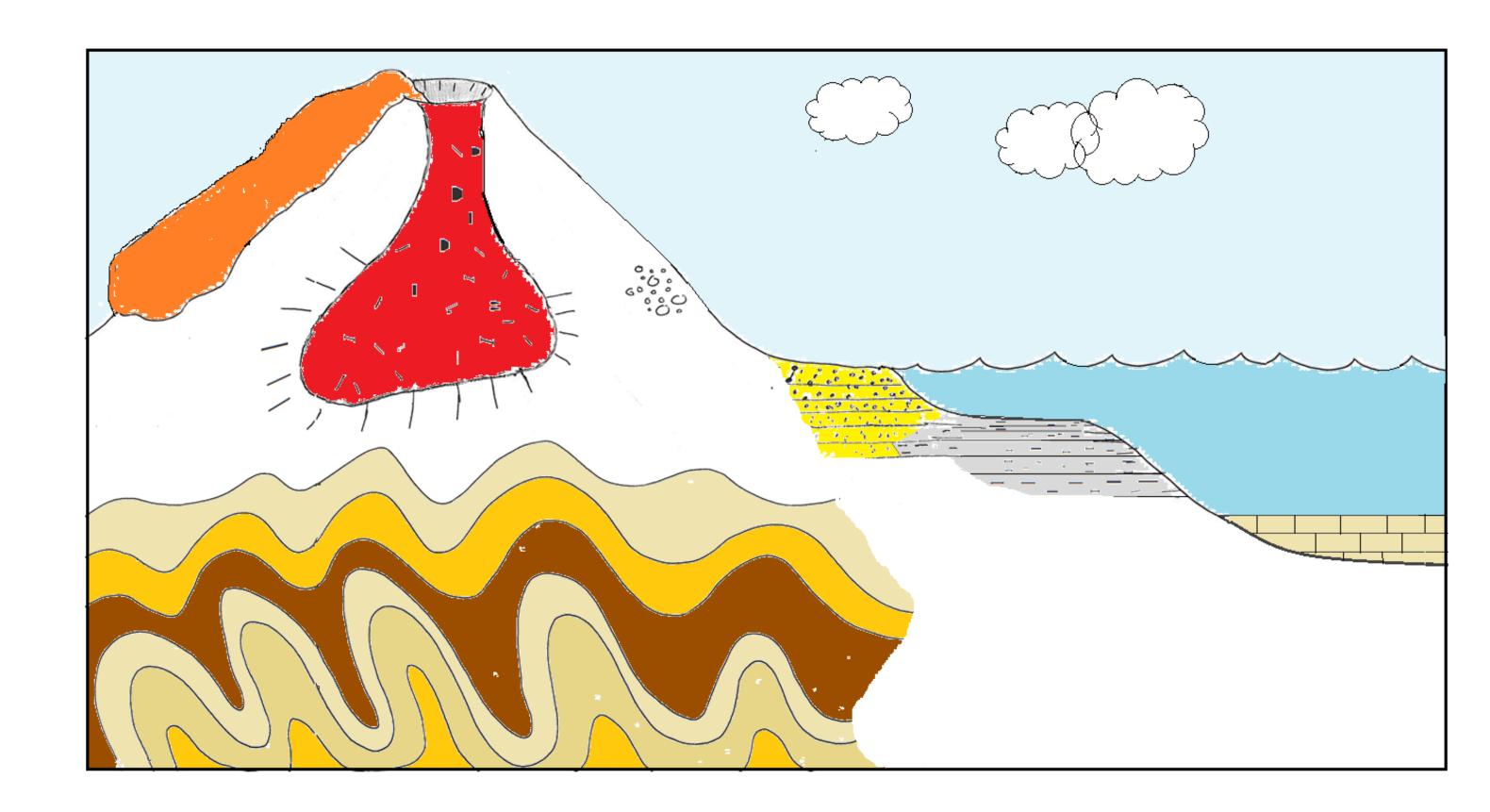
Rock type	Classification	Identify	Rock Name	
	(how formed)	grain size	colors	
Igneous	Intrusive: cools slower	crystals bigger than small sand	black/white or pink/black/white	granite
	underground, crystals big enough to see	grains	black/white	diorite
	Extrusive: cools quickly above ground, crystals too small	crystals too small to see & gas bubble holes	usually black but can be reddish if oxides	scoria
	to see	no crystals	usually black	obsidian
Sedimentary	Clastic: sediment grains	small individual grains	white, tan or reddish	sandstone
	pressed or rock fragments cemented back	very small grains, can't see them	dark gray to black	shale
	together	large and small rounded grains	various individual grain colors	conglomerate
	Chemical: dissolved minerals precipitate out of water	very small, usually can't see grains	usually white or tan	limestone
Metamorphic	Foliated: rocks become	very small, thin layers	light gray or black	slate
	layered due to high heat and	very small with thicker layers	alternating layers with different colors	gneiss (nice)
	pressure	flattened layers that sparkle	usually light white/silver or dark black/green	schist
	Nonfoliated: rocks are heat altered, or chem. reaction	crystal edges blend together, usually don't see individual crystals	white color or pink/purple	quartzite

Rock Formation Card









1	1	1	1	1		1	1	1	1	1	1	1	1	1	L	1	1	1	1	1	1	
1	1	1	1	1		1	1	1	1	1	1	1	1	1	L	1	1	1	1	1	1	
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9