EARTH SCIENCE SHARE-A THON

Title: Classification of Information

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Subject: Rock Classification

Materials needed: Earth Science Reference Table I pp 6 t 7

Teacher Procedure:

before class begins:

- 1. Reproduce copy of first page of lab for each student to complete
- 2. Reproduce copy of rock statements. I have these Xeroxed on heavier paper and then cut the statements out and place them in an envelop.

during class: (30 minutes)

- 1. give each student a copy of the handout and an envelop with the 40 statements.
- 2. students are to use their Reference table to sort the cards into three categories.
- 3. they record their data and answer the questions.

uses for this activity:

- 1. introductory lesson to topic on Rocks. Use as inquiry-hands on lesson. In this way students become familiar with the Reference Table Charts on their own.
- 2. as a review for quiz or test
- 3. assessment tool after lesson on rock cycle and/or rock identification labs.
- 4. devise similar statement cards for other topics, ex: erosional features from glaciers, rivers, wind; galaxy types; star types; planets; seismic waves.

Nama			Data		
Name Date Classification of Information					
examples of class categories so that The skill organize it in a m This topic A list of forty sta Read each statem	sification when you go to the you can find them easily. of classification is also helpfuleaningful way. This helps you can rocks contained a lot of it tements about rock character	grocery store, library, or musual when preparing for a test. ou understand and remember information. The information istics have been prepared for by placing the statement into	aspects of out lives. You find sic store. Items are grouped in When you classify information, you the information. In can be put into a list of statements, you and placed onto separate cards, one of the three rock categories.		
	Rock Type	Statement # Numbers			
	Igneous				
	Sedimentary				
	Metamorphic				
Questions: 1. On what l	basis are tocks classified into	three categories?			
2. How did	you decide on which stateme	nts went into each category?			
3. Which wo	ould you rather study for a tes	st: the statements as listed, or	the classified statements? Why?		

4. For each rock type, list at least five major characteristics?

1. Formed by the cooling and hardening of molten rock materials.	2. Change in pre-existing rock when exposed to intense heat and/or pressure.	3. Sediments transformed into rock by compaction or cementation.
4. Rock made of minerals that were once dissolved in water.	5. Foliated rock.	6. Mineral crystals are arranged in parallel layers.
7. Plutonic rock.	8. Light-colored, coarse grained with felsic composition.	9. Recrystallization of rock when it comes into contact with intruding magma.
10. Intrusive rock forms by slow cooling of magma and has large mineral crystals.	11. Flattened or elongated crystals, distorted layers, and high density.	12. Dark colored, dense rock with small mineral crystals.
13. Organic material is compressed and compacted into a rock.	14. Volcanic	15. Water, ice, and wind deposit sediments that are cemented into rock.
16. Banding of minerals.	17. Rocks over a large area are subjected to great heat and pressure from deep burial.	18. Movements in the Earth's crust place intense pressure on rocks.
19. Sediments are joined together by minerals deposited between them.	20. Clastic rock particles are compacted together.	21. Non-foliated, monominerallic rock.
22. Fossils, ripple marks and mud cracks are evident in the rock.	23. Rock formed by chemical precipitation of minerals out of evaporating sea water.	24. Rock is non-crystalline and glassy in texture.

25. Bioclastic rock.	26. Rock composed of sand-sized particles.	27. Many gas pockets (holes) appeared in rock as it formed.
28. Vesicular	29. Pegmatite	30. Dolostone
31. Phyllite	32. Marble	33. Siltstone
34. Breccia	35. Andesite	36. Slate
37. Shale	38. Gypsum	39. Rhyolite
40. Granite	41. Scoria	42. Basalt