WEBELOS GEOLOGIST ACTIVITY

What metals are made from these materi	als?
HEMATITE produces	
AZURITE produces	
SPHALERITE produces	
What minerals are used to produce these	products?
Glass:	-
Jewelry:	
Fertilizer:	
What minerals are used to make Road Co	onstruction Products?
*Collect five geologic specimens that ha	(Approved by) we important uses to man.
	(Approved by)
*Put in order of hardness:	
l	gypsum
2	fluorite
3	talc
4	quartz
5	
	orthoclase
5	orthoclase apatite
7	apatite
6	apatite topaz
7 8	apatite topaz diamond

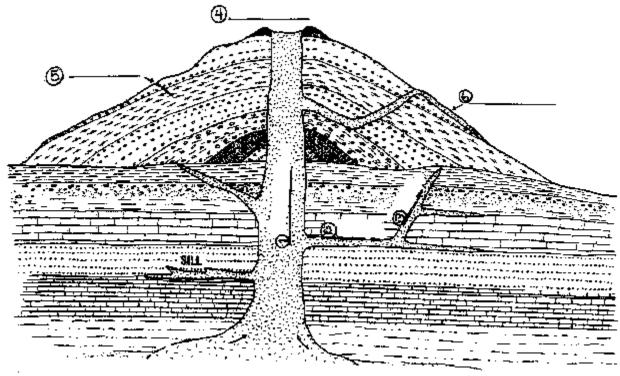
AND					
Mineral har	dness can be estimated	d by using comn	non objects w	ith a knov	wn hardness as follows:
	Fingernail				
	Penny				
	Window glass				
	Knife blade				
	Steel file	6.5			
	shown on Moh's hard is				steel file, but not with
^k Make a list	t of some of the geolo	oic materials use	ed in the const	ruction o	f your home:
wake a ms	tor some of the georg	gie materiais ast	od in the cons	i detion o	i your nome.
					(Approved by)
Give at lea	st one use for each of	the following ro	ocks and/or mi	nerals.	(Approved by)
Give at lea	st one use for each of				
Give at lea	st one use for each of ROCK OR MINER			nerals.	
Give at lea					
Give at lea	ROCK OR MINER				
Give at lea	ROCK OR MINE				
Give at lea	ROCK OR MINER	RAL			
Give at lea	ROCK OR MINER Barite Gypsum	RAL			
Give at lea	ROCK OR MINER Barite Gypsum Mica (Muscovite of Magnetite	RAL			
Give at lea	ROCK OR MINER Barite Gypsum Mica (Muscovite of	RAL			
Give at lea	ROCK OR MINER Barite Gypsum Mica (Muscovite of Magnetite	RAL			
Give at lea	ROCK OR MINER Barite Gypsum Mica (Muscovite of Magnetite Galena	RAL			
Give at lea	ROCK OR MINER Barite Gypsum Mica (Muscovite of Magnetite Galena Marble	RAL			
Give at lea	ROCK OR MINER Barite Gypsum Mica (Muscovite of Magnetite) Galena Marble Hematite	RAL			

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(Approved by)

continued.....

*On the picture of the volcano, label the six parts:



Cross section of a volcano. The throat of a volcano usually follows a fissure in the rocks. The magma enlarges the opening and forces its way along cracks and joints to form dikes and sills, and reaches the surface as lava flows.

*Give a brief explanation of how a volcano	(Approved by)
*Other types of mountains are fault block n Explain how one of these was formed.	(Approved by) nountains, dome mountains, and folded mountains.
Webelo Scout	(Approved by) has completed all requirements of the
Geologist Activity on(Date)	·
Completion verified by:	(5/89 Rev. 5/10)

$\underline{\textbf{Questions for Webelos based on MUM Geology Club tables; Miami University-Middletown}}$
1) List three types of jobs you could have as a geologist
2) When trying to identify a mineral is color a good property to use? Why or why not?
3) How do we identify igneous rocks?
4) If magma cools below the surface of the Earth what type of rock forms?
5) How do we identify sedimentary rocks?
6) Name the two most common sedimentary rocks found in the Tri-state area
7) Does a foliated metamorphic rock have "layers? If so how do they form?
8) When rocks weather what do they form?
9) List the following from largest to smallest grain size: Silt, clay, and sand
10) How can you determine the amount of sand, silt and clay in the soil in your backyard?
Questions for Webelos Scouts about Fossils Compiled by David L. Meyer, Professor of Geology, University of Cincinnati
Complied by David L. Meyer, Professor of Geology, University of Chichinati
1 – What is a fossil? How do fossils form? Explain each of these kinds of fossils: body fossil, trace fossil, internal mold, external mold, cast
2 – Why are fossils useful and significant? What is paleontology?
3 – Why is the Cincinnati area (Tristate) famous all over the world for its fossils and sedimentary rocks? How old are these fossils? Name some of the common fossils found in the area.
4 – What is the Cincinnati Arch? How did it form? Why is it important for understanding the geology of the region?
5 – Where can we go to find fossils in this area?