1) Which of the following minerals is a mica? To what larger mineral group do micas below?

muscovite	tourmaline	olivine	lepidolite	sphalerite
muscovite	tournamic	Unvinc	replaonte	spharence

2) Which of these minerals has the highest specific gravity ? What makes this mineral so dense?

malachite	tremolite	galena	rhodonite	celestite
malachite	tremonte	galena	modonite	celestite

3) From the same list as #2, which of these minerals is a carbonate mineral? What metal comes from that mineral?

4) Which of the following minerals is usually found in metamorphic rocks

dolomite azurite gypsum staurolite ulexite

5) Which of the following minerals is NOT a silica group mineral? What group does that mineral come from ?

Citrine	Jasper	Chalcedony	Onyz	Alabaster
Citilite	Juspei	chalcedony	01172	7 110 00 00 00 00 00

6) Can you identify the minerals in the pictures below?



7) Which of the pictured minerals has a hardness of 8?

8) Can you name a mineral on the hardness scale softer than all of these ? Can you name two such minerals ?

2) Same with fine grained extrusive igneous rocks. There are 5 of these to know, not counting obsidian.

3) Below is a list of sedimentary and igneous rocks on the left and metamorphic rocks on the right. Can you match them?

limestone	gneiss
shale	quartzite
granite	marble
sandstone	slate

4) Can you name the three coals on your rock list? If not go look at your list. And then list them from softest to hardest. Which one provides more energy per volume of rock?

Use this list of minerals to answer questions 5 - 10

Tremolite Olivine	Talc Malachite	Opal Kaolinite	Biotite Apatite
Celestite	Beryl	Silver	Citrine
Topaz	Galena	Graphite	Hematite

5) Which two of these minerals are native elements? Which is a carbonate? Which is a sulfate?

______/ _____/

Native elements ______ and _____

Carbonate ______ sulfate _____

6) Five of these minerals occur as gemstones. Which 5?

7) Which mineral has a bright red streak ? Do you know why ?

____ WHY _____

8) Can you identify the silicate minerals in this list ? Hint: there are 8 of them.

9) How many of these minerals are on the hardness scale? Work to learn that list.

______/ _____/ ______/

10) We recover lead from one of these minerals and copper from another? Pb _____ Cu _____