Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_KEY\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Mineral Worksheet/ Study Guide***

***Directions: Using your textbook and notes answer the following questions. Create flash cards and study nightly. Bonus points will be given for flash cards.***

1. An \_\_\_\_\_ATOM\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is the smallest particle of matter.
2. An \_\_\_\_\_\_\_\_ELEMENT\_\_\_\_\_\_\_is a substance made of one kind of atom.
3. The Modern \_\_\_\_\_\_\_\_PERODIC\_\_\_\_\_\_\_\_Table is a chart containing all the known elements.
4. Name the mineral that is made up of the elements silicon and oxygen.\_\_SILICON-OXYGEN TETRAHEDRAN\_\_\_
5. Name a single element mineral.\_\_\_\_\_\_ANY ELEMENT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Where are mineral found? \_\_\_\_\_\_\_\_\_\_\_\_\_\_IN THE EARTH
7. About how many elements are there on the earth? \_\_\_\_\_\_\_\_\_111\_\_\_\_\_\_\_\_\_\_\_\_
8. List five of the 111 known elements. \_\_\_\_ANY ELEMENTS\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
9. About how many minerals are found on the earth. \_\_\_\_\_\_\_\_\_3800 +\_\_\_\_\_\_\_
10. Coal is a solid \_\_\_\_Fossil fuel\_\_\_\_ substance that is formed from decaying plant matter.
11. Name another organic substance that is not a mineral. \_\_\_\_\_\_SUGAR\_\_\_\_\_\_
12. Name the most common element found on earth. \_\_\_\_\_\_\_SILICON\_\_\_\_\_\_
13. Name two precious metals. \_\_\_\_\_\_\_\_GOLD\_\_\_\_\_, \_\_\_\_\_\_\_\_\_SILVER\_\_\_\_\_
14. Name another term used for a minerals characteristics. \_\_\_\_\_\_\_PROPERTIES\_\_\_\_\_\_\_
15. What is mica? \_\_\_\_\_SHINY SILICATE WITH A LAYERED STRUCTURE\_\_\_\_-
16. How does mica break? \_ALONG FLAT PLANS\_(CLEAVAGE)\_\_\_\_\_\_\_\_\_\_\_\_
17. Minerals \_\_\_\_\_\_\_\_SEPERATE\_\_\_\_\_\_\_\_ out of a liquid made of water and one or more elements.
18. Elements that make up each mineral are arranged in a set\_\_STRUCTURE\_\_\_.
19. Name the properties that miners used to help identify gold.\_\_\_\_\_DENSITY\_\_\_
20. What changes a minerals color? \_\_\_ADDING DIFFERENT ELEMENTS AND WITH EXTREME HEAT\_\_\_\_\_\_\_\_\_
21. Minerals are identified by \_\_\_\_\_\_THERE CHARACTERISTICS\_\_\_\_\_\_\_\_.
22. Name two minerals that have at least three different color properties to consider. \_\_\_\_\_QUARTZ\_\_\_\_\_\_\_ , \_\_\_\_\_\_\_\_\_\_CALCITE\_\_\_\_\_\_\_\_\_\_\_\_\_
23. When minerals are rubbed on a piece of unglazed tile they ***leave a colored line*** called \_\_\_\_\_\_STREAK\_\_\_\_\_\_\_.
24. Name the property that reflects light. \_\_\_\_\_\_\_LUSTER\_\_\_\_\_\_\_\_

25. Name the property that compares ***how heavy a mineral is*** compared with how much . space it takes up. \_\_\_\_\_\_\_\_\_\_DENSITY\_\_\_\_\_\_\_\_\_\_\_

1. Name the property when two minerals are rubbed together the harder mineral will ***scratch*** the softer mineral. \_\_\_\_HARDNESS\_\_\_\_\_\_\_\_\_\_\_\_

When minerals break along ***flat, even surfaces*** or in more than one direction this

property is called \_CLEAVAGE\_\_\_\_\_\_.

When a mineral breaks along ***curved or uneven surfaces*** rather than flat surface, this

property is known as \_\_\_\_\_FRACTURE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

What is the name of the hardness scale? \_\_\_\_\_\_\_\_MOHS\_\_\_\_\_\_\_\_

1. Name an example of a mineral that would use the property of taste. \_\_HALITE (ROCK SALT)\_
2. Using the Mohs’ scale which mineral has the hardest of 7? \_\_\_QUARTZ\_\_\_
3. The mineral ***sulfur*** can be identified by the property of \_\_\_\_\_\_SMELL\_\_\_\_\_\_.
4. What is the ***softest mineral*** on the Mohs’ scale? \_\_\_\_\_\_\_\_\_TALC\_\_\_
5. What is the ***hardest mineral*** on the Mohs’ scale? \_\_\_\_\_\_\_\_\_DIMOND\_\_\_\_\_\_
6. What is the shape of a salt crystal? \_\_\_\_\_\_\_CUBIC\_\_\_\_\_\_\_
7. All ores are \_\_\_\_\_\_\_\_\_\_\_\_MINERALS\_\_\_\_\_\_\_\_\_\_.
8. All minerals ***are not*** \_\_\_\_\_\_\_\_\_ORES\_\_\_\_\_\_\_\_\_\_\_.
9. Name a metal that is used in making nails and railways. \_\_\_\_Fe IRON\_\_\_\_\_
10. Mining is the removal of an \_\_\_\_ORE\_\_\_\_ from the earth.
11. The definition of an ore is: ***An ore is a mineral from which metals can be removed.***
12. The definition of an element is s follows: ***An element is the simplest of substances found on earth. It is a substance made of one kind of atom.***
13. The definition of a mineral is as follows: ***A mineral is a solid inorganic (non-living) substance, found in nature, and is made up of a set amount of ingredients called elements.***
14. The definition of an alloy is as follows: ***An alloy is a metal that is a mixture of two or more metals. Example is bronze is an alloy of copper and tin.***
15. ***The difference between a rock and a mineral is that a rock is made of minerals***