**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Unit 4 Lesson 1 Reading Guide**

**Directions:** Read pages 208-217 in your book, then go back and answer the following questions. I have put page numbers next to the questions to help guide you.

**True or False**

1.Each mineral has a specific chemical composition.**\_\_\_\_\_**

2.You can usually identify a mineral by its color alone.\_**\_\_\_\_**

3. The color of a mineral is always same as the color of its powder.\_**\_\_\_\_\_**

4. The mineral pyrite has a non-metallic luster. **\_\_\_\_\_\_\_**

5. The Mohs hardness scale ranges from 1 to 100.**\_\_\_\_\_**

6. Mica tends to form cubes when it cleaves. **\_\_\_\_\_\_**

7. Certain minerals are attracted to a magnet. **\_\_\_\_\_**

8. All minerals form in the same way. **\_\_\_\_\_**

**Multiple Choice**

9. Minerals may form when

1. rocks are heated to high temperatures.
2. rocks are exposed to high pressure.
3. lava cools and hardens.
4. all of the above

10. The color of a mineral’s powder is its

1. streak.
2. luster.
3. color.
4. cleavage.

11.What is the least reliable property for identifying minerals?

1. streak
2. hardness
3. color
4. luster

12 .Factors that may affect a mineral’s color include

1. mass.
2. streak.
3. cleavage.
4. weathering.

13. Which of the following minerals has the greatest density?

1. gold
2. pyrite
3. quartz
4. fool’s gold

14. Which sequence shows minerals in the correct order from softer to harder?

1. gypsum, apatite, corundum
2. apatite, gypsum, corundum
3. apatite, corundum, gypsum
4. corundum, apatite, gypsum

**Fill In The Blank**

15. Organic substances are made by **\_\_\_\_\_\_\_\_**.

16.The atoms of most minerals are arranged in a regular repeating pattern called a **\_\_\_\_\_\_\_\_\_\_\_.**

17. Minerals known as **\_\_\_\_\_\_\_** contain silicon and oxygen.

18. When magma flows out of a volcano, it is known as **\_\_\_\_\_\_\_\_.**

19. As water evaporates, substances form into solids and come out of the solution or **\_\_\_\_\_\_\_\_\_.**

20.The Mohs scale is a reference scale for mineral **\_.\_\_\_\_\_\_\_\_\_\_.**

21. The mineral with the lowest value on the Mohs scale is **\_\_\_\_\_\_.**

22. Three types of luster are (choose 3 out of the 8) **\_\_\_\_\_\_, \_\_\_\_\_\_**, and **\_\_\_\_\_\_\_.**

**Short Answer:**

23. What are minerals? **\_\_\_**

24. What is the hardness of a mineral? **\_\_\_\_**

25. Describe the Mohs hardness scale and fill in the table below.

|  |  |
| --- | --- |
| **SCALE see pg 216** | **MINERAL** |
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