Date:_____

Unit 6 Study Guide

- 1. A mineral sample scratches, fingernails (2.5), pennies (3.5) and glass (5.5) but does not scratch steel (6.5). What could be the hardness of the mineral?
- 2. Name 5 mineral characteristics?

- 3. The color of the power that a mineral leaves on a piece of white, unglazed porcelain is called the mineral's _____.
- 4. Pyrite is called fool's gold because it looks a lot like gold. What properties can be used to tell pyrite and gold apart?

5.

1	Rock is mixture one or more minerals		
Ш	A mineral is a mixture of many rocks		
Ш	Minerals are solid		
IV	Rocks and minerals are naturally formed		

Which of the following statements are TRUE?

6.

Mineral	Color	Luster	Streak	Hardness
Beryl	deep green, pink, white, bluish green, or yellow	vitreous	white	7.58
Chlorite	green	viticaus to pearly	pale green	2-25
		0		
Olivine	olive green, yellow	vitreous	white or none	6.5-7
Orthodase	colorless, white, pink, or other colors	vitreous	white or none	6
Plagioclase	colorless, white, yellow, pink, green	vitreous	white	6
Quartz	colorless or white; any color when not pure	vitreous or waxy	white or none	7

What mineral is described above?

- Colorless or white in appearance when pure • Density around 2.6
- · Scratches glass but not a diamond
- · White Streak
- · Vitreous (glassy)
- 7. How are rocks DIFFERENT from minerals?

8. Ms. Jones is teaching her class about rocks and minerals. She holds up a rainbow chocolate chip cookie and explains that the cookie is like a rock. Next, she points to the different colored chocolate chips. What do the chocolate chips represent?

 Minerals are naturally occurring inorganic solids that possesses an orderly internal structure and a definite chemical composition. This orderly internal structure or regular pattern is called its

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 10. Juan observes a material in the rocks of a Juan hammers off a piece and then exam the pieces with a hand lens. He makes the following notes about what he observes: has luster 	ines lava cools?	16. Which kind of rock is formed when volcanic lava cools?						
 cubic crystals clear in color What did he most likely observe through the 	sedimentary, metamor which basis are these c	17. Rocks found on Earth are generally classified as sedimentary, metamorphic, or igneous. On which basis are these classifications made?						
hand lens?								
 Students want to identify a rock in a nearb field. What properties would be most useful 								
identifying the unknown rock?	19. What type of rock result undergoing compactic							

12. Extrusive rocks are formed by

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13. Ricardo has an igneous rock in his rock collection. Where did this rock most likely form?

- 14. Rocks are affected by heat and pressure. One source of this pressure is ______.
- 15. During a summer vacation in Hawaii, Carlos found several rock samples to share with his Earth Science class. Most of the rocks were black, containing only few light-colored crystals. All of the crystals were large and the rocks had a coarse texture. What can you infer about the rocks Carlos found?

- 20. Igneous rocks are classified by where they are formed. Which type of igneous rock forms underground?
- 21. When limestone is exposed to enough heat and pressure, it goes through physical changes. These changes can turn limestone into a different kind of rock called marble. What kind of rock is marble?
- 22. What is the formation process for a sedimentary rock?