Review Guide for Chapter 2 & 3 Test

1. What is an element? 

2. What is an atom made of? 

3. What is a compound? 

4. What is an isotope? 

5. When are chemical bonds likely to form? 

6. What type of bond forms when electrons are gained or lost? 

7. What type of bond forms when electrons are shared? 

8. What is a mineral? 

9. What are the 4 ways that minerals can form? 

10. How are minerals classified? 

11. Define the following mineral groups: 
   a. Silicates - 
   
   b. Carbonates - 
   
   c. Oxides - 
   
   d. Halides - 
   
   e. Sulfates & Sulfides - 
   
   f. Native Elements - 

12. What does the Mohs scale measure? 

13. What is cleavage? 

14. What is fracture? ________________________________________________________

15. What is luster? _________________________________________________________

16. What distinctive property does calcite have when it comes in contact with acid? ______

17. What is a rock? _________________________________________________________

18. What is the rock cycle? ________________________________________________

19. Where does the energy that drives Earth's rock cycle come from? ______________

20. How do igneous rocks form? _____________________________________________


22. How do metamorphic rocks form? _________________________________________

23. What are the differences between extrusive and intrusive igneous rocks? ______

24. What is contact metamorphism? _________________________________________

25. What is regional metamorphism? _________________________________________

26. Where do most metamorphic processes take place? _________________________

27. What are some unique features of sedimentary rocks that are clues to how and where the rocks formed? ________________________________

28. What type of texture does slow cooling resulting in larger crystals cause? ______

29. What type of texture does fast cooling resulting in smaller crystals cause? __________

30. What type of texture does very rapid cooling cause? _________________________

31. What type of texture does varied rates of cooling resulting in different sized crystals cause? ______________________________

32. Make sure you know how to read the igneous, sedimentary, and metamorphic rock tables from the chapter 3 rock notes!