**Three Main Ideas**  
  
Volume ?                                                     Weight  ?                                                Specific gravity ?  
  
**Supporting Details**  
  
H x L x W = ?                                             Balance ?                                                     M1?   M2 ?  
  
Irregular Shapes?                                 How to use balance?                                  The equation  and  
  
Water displacement ?                                                                                                  how it is worked?  
  
How it is measured?  
  
**Conclusion**  
  
**30 points content   10 points organization**

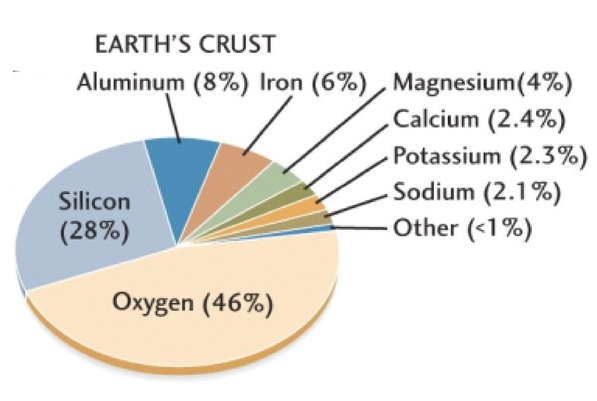
[**Astronomy Picture of the Day**](http://www.star.ucl.ac.uk/~apod/apod/astropix.html)



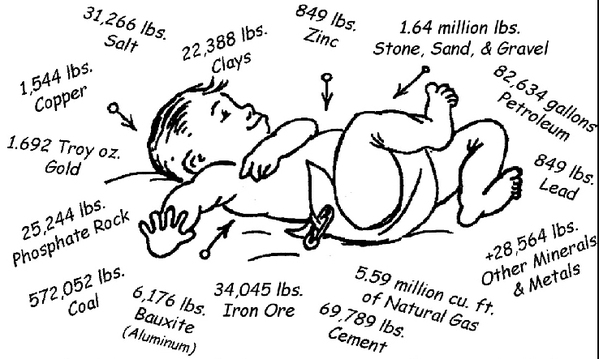
[**Year of the Comet**](http://www.space.com/20075-comets-pan-starrs-ison-2013-stargazing.html)   
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**Minerals page 96-111  
  
Key Concepts:  
  
1. Identify the characteristics of minerals. Page 96  
  
2. Explain the three methods of forming  minerals. Page 97.  
  
3 What is crystalline structure (Faces)?  
  
4. How to identify minerals?  
  
5. Minerals in our life.  
  
6. Volume, Density, "Specific  Gravity" essay.**



**Minerals  page 96**   
  
**There are some 4000 known minerals.   
  
What are the five most  common  elements in the earth’s crust   .p96.  
  
1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   2.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  
**3.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
4.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  5.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  
  
  
 **6. Compare the amounts of \_\_\_\_and sodium?**

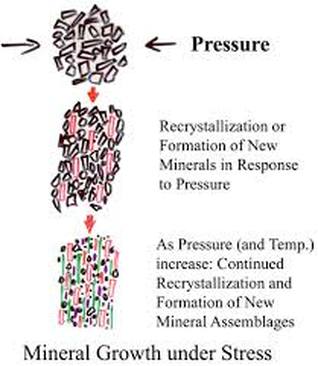


**3.6 million pounds of minerals**

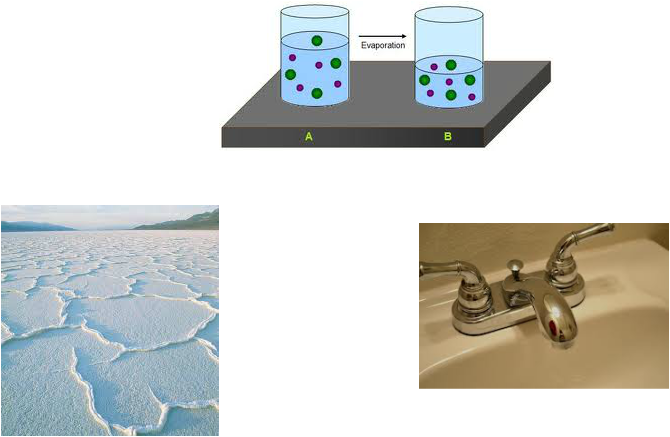
**Mineral Characteristics page 96  
  
  
7. Occur \_\_\_\_\_\_.  
  
8. \_\_.  
  
9. Definite chemical \_\_\_\_\_.  Most are compounds.  
  
10. Atoms are arranged in an orderly \_\_\_. Crystals.  
  
11. \_\_\_ not alive never been alive.**



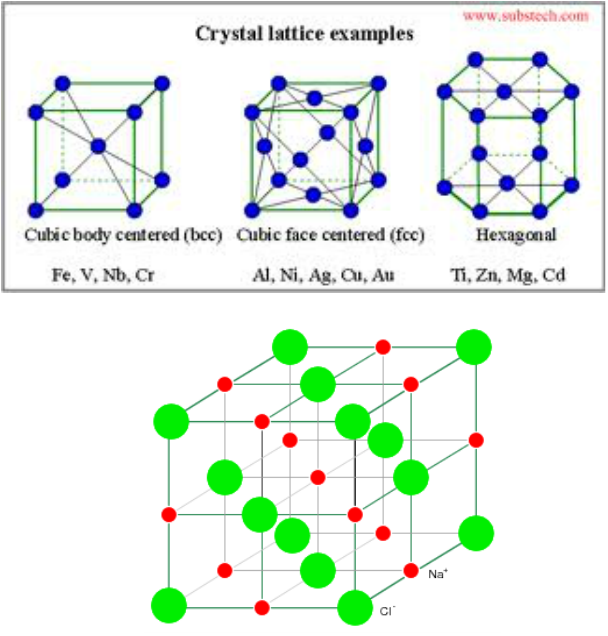
**How Minerals  Form page 97  
  
12.\_\_\_\_ Process :  
  
13. Magma- \_\_\_ rock   
  
14. The particles in the hot Magma \_\_ freely. .  
  
15. When the magma starts cool these atoms, molecules and ions move closer together and \_\_\_ to form various compounds .  
  
16.  As they slow forces of attraction \_\_ the partials together and form grains of  minerals.**



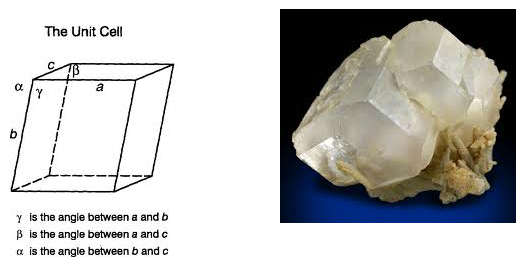
**Pressure Process page 97  
  
17.When a rock is subject to high \_\_ and pressure,  the  minerals can begin to break down .     
  
Coal to a diamond   
  
18.The temperature and pressure becomes great enough to \_\_\_ the minerals in solid state, without  \_\_\_\_them.  
  
19. The free, atoms, ions and molecules \_\_ in new ways, forming  minerals**.



**20. \_\_\_\_\_Process: Water with a mix of particles. As the water evaporates the particles get close and closer.  Sodium and chlorine in water form ions.  As the water \_\_\_\_ salt is formed.**



**Crystal Structure Page 98-99**  
  
**21. A crystal is a regular \_\_ solid with smooth surface called crystal \_\_\_\_.**   
  
**22. All minerals have crystalline \_\_\_\_.   Regular  \_\_\_\_\_arrangement of atoms.**



**Page 99  
  
23. Note the geometric shapes of the \_\_.    
  
24. Some faces are straight \_\_\_\_ and some are \_\_\_.  
  
25. Some are \_\_\_\_, rectangular(\_\_\_\_\_ faces) or hexagon shaped.(\_\_\_\_ faces)**



**Identifying Minerals page 104**



**26. \_\_\_\_\_**



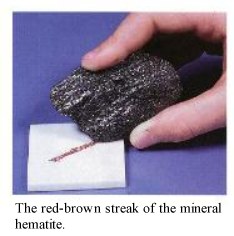
**27.  Malleable \_\_\_\_\_\_ into shape.**



**28.  Ductile  drawn out into a thin \_\_\_\_\_without crumbling.**



**29. Luster/ \_\_\_\_\_**.



**30.Streak \_\_\_\_   of its powder**.

**Crystal Shape**  **faces**



**31.  Fracture how it \_\_\_up**.

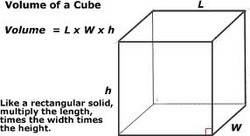


[**Mineral Uses**](http://www.mineralogy4kids.org/)

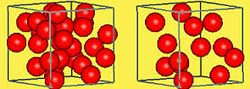
[**Mineral uses**](http://www.rocksandminerals.com/uses.htm)



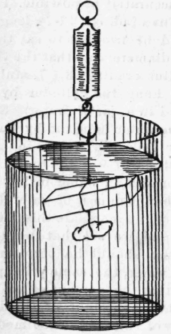
**32. Archimedes Principle If an object can \_\_\_ the volume of water equal  to  the weight of the ship, it will float.  
  
33. An object will weigh \_\_\_in water.  
  
Iron ships can float?  
  
Wood ships can sink.  Why?**



**33. Volume ?**



**34. Density ?**



**35. Specific Gravity ?**

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