Unit 1 Test Questions P. 1

1. What reaction is causing the heated can to crush when placed in cold water?
2. How many countries use the English system of measurement?
3. Solve the following problem: (5.7 x 1027)(9.7 x 1032)
4. Which processes of changes of state are examples of increasing energy?
5. Differentiate between the characteristics of movement between each phase of matter.
6. What is the name of the process that allows solid to change directly into gas?
7. What defines the difference between observations and inferences?
8. List two examples that would be most logical to measure in kilometers and explain your reasoning why.
9. What is the name of the process to change a solid to a liquid and provide an example of this occurring.
10. Why do scientists use the metric system?
11. What is the difference between physical and chemical changes?
12. Give three different examples of changes in states of matter.
13. Is heat added or released when changing from a liquid to a solid?
14. Is heat added or released when changing from a solid to liquid?
15. Explain the state that sublimation goes from and provide an example from daily life.
16. What is it called when a gas changes directly to a solid without going through the liquid phase. Explain at the particle level how this is occurring. Please draw what is occuring at the particle level.
17. Describe two characteristics of a physical change.
18. List the phases of matter from the least energy to the most energy.
19. In which phase of matter is the most potential for movement?
20. Name two characterists of a chemical change. A physical change?
21. Give two examples of a physical change.
22. What makes matter important in the world?
23. How can you determine the difference between a chemical and physical change when two or more things are mixed together?
24. What is an example of the result of a physical change?
25. What is one major difference between a physical and a chemical change?
26. How does adding the food coloring in the vinegar and baking soda change the outcome of the experiment?
27. What do you think would happen if you added double the amount of alka seltzer?
28. Compare the two types of changes between a physical change and chemical change
29. Which processes are endothermic and exothermic?