**Chapter 7 Study Guide-Answer on a separate sheet of paper**

1. What is a chemical bond?
2. What are the states of matter and how are they different from each other?
3. How are the particles arranged and how do they move in a solid, liquid, and gas?
4. What is the difference between a crystalline and an amorphous solid? (Be able to identify a picture)
5. Draw the state change triangle. (Be able to identify these on the test)
6. What is the difference between a heterogeneous mixture and a homogeneous mixture?
7. What happens when thermal energy is added to a solid or liquid? Review the graph from your chapter 7 homework.
8. What is the exact time when a substance changes state called?
9. What is the difference between a mixture and a compound?
10. What is the difference between atoms and molecules?

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