Name:_____

Topic 2.3 Questions

1. Give two examples of solids, liquids, and gases.

2. List the three main states of matter on Earth and describe the physical properties associated with each state.

3. Which state of matter does plasma most resemble and why?

4. How does a model differ from a theory?

5. What is the particle model of matter?

6. Summarize the four key points of the kinetic molecular theory of matter:

    1.

    2.

    3.

    4.

7. A liquid conforms to the shape of its container but does not expand to fill the container. Use KMT (kinetic molecular theory) to explain why.

8. It is easy to compress (reduce the volume of) a gas, but solids and liquids cannot be compressed very much. Use the KMT to explain why.

9. Define temperature.

10. What is the melting point of a substance?

11. Use KMT to explain why a balloon in a hot car will expand and may eventually pop.

12. What is diffusion?

13. Why do materials expand (thermal expansion) when they get hotter? Why do materials shrink (thermal contraction) when they get colder?