

Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

## States of Matter – Ch. 16

1. Compare and contrast solids and liquids.
2. Compare and contrast liquids and gases.
3. Draw a diagram to represent 8 particles in each state of matter. (HINT: Recall that plasma is gas-like but with one major difference.)



SOLID



LIQUID



GAS



PLASMA

4. A common trick for removing a stubborn jar lid is to run the metal lid under hot water.
  - a. What does Kinetic Molecular Theory tell us about the effect of temperature on the motion of particles?
  - b. Describe what happens to the particles in the metal lid when it is run under hot water. Why does this trick allow the lid to be removed more easily?
  - c. What is the process you described in 4b called? \_\_\_\_\_
5. Describe the movement of particles at the melting point of a substance.