

Name: \_\_\_\_\_  
Class: \_\_\_\_\_




Date: \_\_\_\_\_  
States of Matter Simulation Lab

### States of Matter Simulation Lab

Before you open the simulation:

#### PREDICT

1. Draw a diagram below showing what you think the molecules will look like for each state of matter, solid, liquid, and gas. Write a sentence below each diagram predicting what the motion of the molecules will be like.

|                                                  | Solid                                                                             | Liquid                                                                            | Gas                                                                                 |
|--------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Diagram of molecules                             |  |  |  |
| Sentence explaining how molecules will be moving | I would expect these molecules to be tightly packed and barely moving.            | these will be moving around somewhat but still close together.                    | These molecules will be moving around much more.                                    |

2. If you start with a substance as a solid, what will happen to the molecules as you add thermal energy (heat)? the molecules will start to move quickly away from one another and become less tightly packed.

ONCE YOU HAVE COMPLETED THIS PAGE, YOU MAY BEGIN THE SIMULATION.