

Name: _____

Period: _____

Final Review: Matter Motion

Things I Should Know:

1. Examples of particles in constant motion
2. Compare the motion of particles at various temperatures by measuring changes in volume
3. Investigate the diffusion of particles
4. Describe the impact of expansion and contraction of solid materials on the design of structures

Practice Questions:

1. List 3 examples that show particles are always moving.

1. _____

2. _____

3. _____

2. Complete the table below

Phase (State)	Speed	Volume	Temperature
Solid		Smallest	
Liquid			Medium
Gas	Fastest		

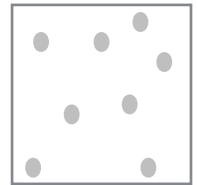
3. If I had 2 identical balloons filled with gas, which would have the fastest particles? _____

4. Picture A shows the particles of a substance in a flexible container and picture B shows

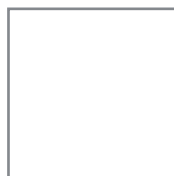
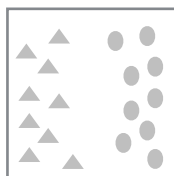
the particles of the same substance after some time has passed. What

could have happened to the particles of the substance between the two

pictures? _____



5. Draw the shapes in the second square to show what happens after diffusion occurs.



6. Why don't engineers hang telephone cable really tight during the summer? _____