



Matter all around us Part B

Fill in the blanks by choosing one of the words provided in brackets.

1.	•
	vibrate (FASTER/SLOWER). This difference is due to the COLD
	solid's molecules having(MORE/LESS) kinetic energy.
2.	The difference between a solid and a liquid at the same temperature is that the liquid has
	MOr (MORE/LESS) kinetic energy.
3.	The molecular theory states that:
	a. All matter is made of particles too to be seen (unless you have a
	scanning tunneling electron microscope!).
	b. These particles are in constant (unless at absolute zero!).
	c. The more energy particles have the (FASTER/SLOWER) they move.

d. Particles in a SONO (SOLID, LIQUID, GAS) can only vibrate whereas particles in a NO (SOLID, LIQUID, GAS) can slide past each other and particles in a NO (SOLID, LIQUID, GAS) are very far apart.

e. The more (ENERGY/MASS/VOLUME) that particles have the faster they can move.

Show what you know about states of matter.

Complete the following table by describing the three states of matter.
The table has been partially completed to help guide you.

