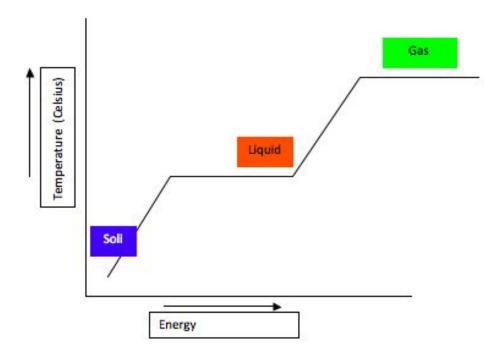
Name		Date	Block
Procedure:			
•		r the address: http://phet.c	
Click on "l	Play with Sims" and select	"Chemistry" from the men	u on the left.
 Open the 	"States of Matter" Simulati	ion and select "Run Now"	
Investigation:			
1. Predict wh	nat the molecules of a solid	d, liquid and gas look like.	Illustrate you
prediction with a	drawing.		
Solid	Liquid	Gas	
Cond	Liquid	Ods	
	a change in temperature (heat or cold) will affect each	ch phase
change.			
2. Complete	the table below by explor	ring the "Solid, Liquid, Gas"	tah in the
	•	ord your observations by re	
	•	ance in the three states of	•

Substances	Observations			
	Solid	Liquid	Gas	
	Temperature:	Temperature:	Temperature:	
Neon	Illustration:	Illustration:	Illustration:	
Argon	Temperature:	Temperature:	Temperature:	
	Illustration:	Illustration:	Illustration:	
	Temperature:	Temperature:	Temperature:	
Oxygen	Illustration:	Illustration:	Illustration:	
	Temperature:	Temperature:	Temperature:	
Water	Illustration:	Illustration:	Illustration:	

3. Interpret the graph of Kinetic Energy vs. Temperature.
Using the graph describe the relationship between Kinetic Energy and Temperature.



- **4.** Write a conclusion, using the simulation and graph.
 Use what you have learned in this activity to support the following two statements.
- · How the molecules in a solid, liquid and gas compare to each other.
- · How temperature relates to the kinetic energy of molecules.