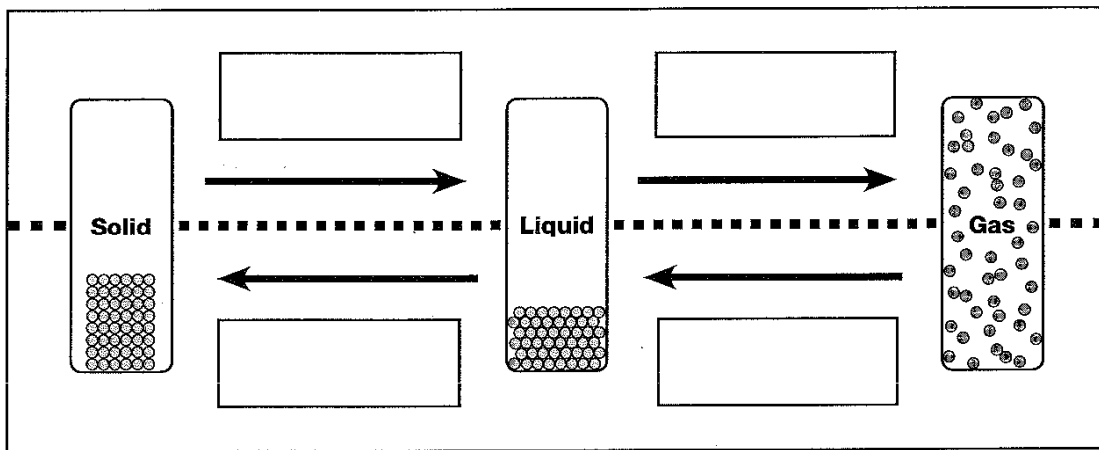


Science  
Study guide  
Investigation 7  
Mr. Elliott

What is between water particles in a glass of pure water?

Fill in the four boxes with the name of the process that results in the phase change.



Sugar can melt and sugar can dissolve. What is the difference?

A) Melting –

B) Dissolving -

What happens to the particles in liquid water when it changes to ice?

The melting/freezing point of mercury is -39 degrees. Phil put the liquid mercury in the freezer that is at -35 degrees.

Will the mercury freeze?

Why or why not?

Describe what happens to the particles of butter as it is heated and melts?

Time in min	Freezer temp in celsius	Unknown liquid temp in celsius
0	-15	20
2	-15	15
4	-15	11
6	-15	7
8	-15	7
10	-15	7
12	-15	7
14	-15	7
16	-15	7
18	-15	5
20	-15	3
22	-15	0

Use the chart to answer the following questions.

What is the freezing point of the unknown liquid?

What happens between 6-16 minutes?

What happened at 16 minutes?

Will this system ever reach equilibrium?

If so, what will the equilibrium temperature be?