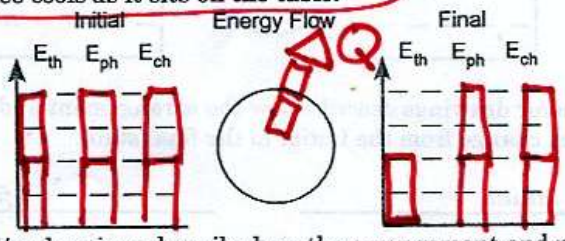
1. A cup of hot coffee cools as it sits on the table.



In words and/or drawings describe how the arrangement and motion of the molecules change from the initial to the final state:

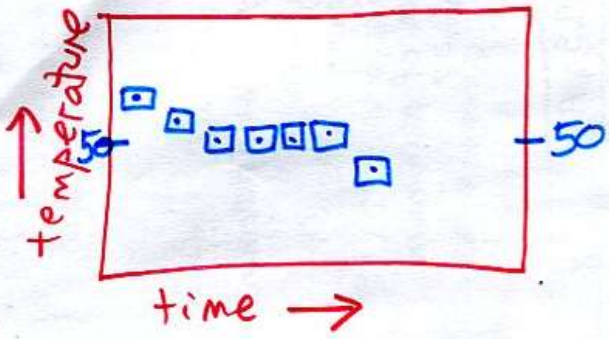
initial:	*final:*
fast vibrations of liquid	slower vibrations of liquid

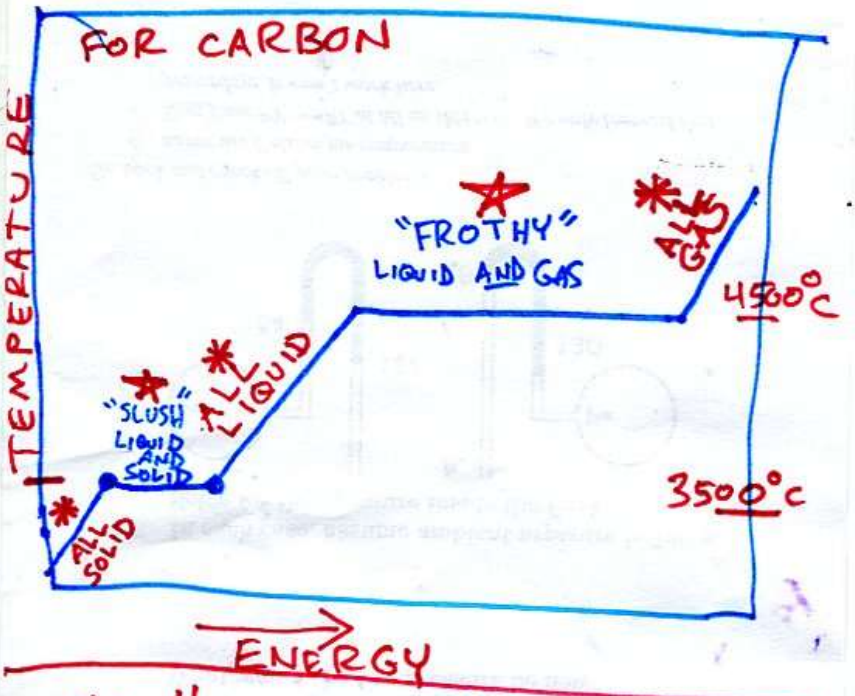
HAND IN LAB SHEET NOW IN THE RED BOX.

PURPOSE: WHY DOES COOLING CAUSE A STRANGELY CURVED GRAPH?

WARMUP (copy)

"A student records cooling temperatures for a liquid as 60, 55, 50, 50, 50, 50, 45"

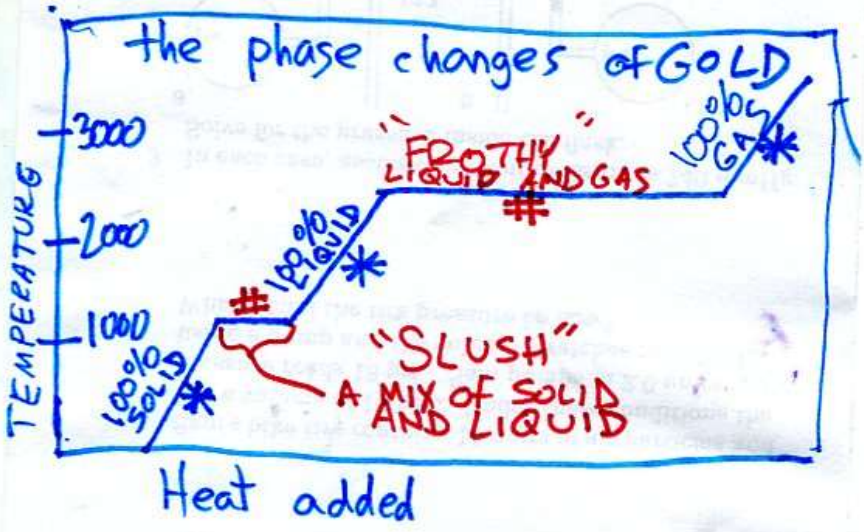




* the energy that's added only goes to cause faster vibration

★ the energy that's added only goes to seperate the molecule distance (change the phase)

ALL ELEMENTS AND MOST SUBSTANCES GO THROUGH A ZIG ZAG WHEN HEATED AND COOLED, MELTED, BOILED, ETC.



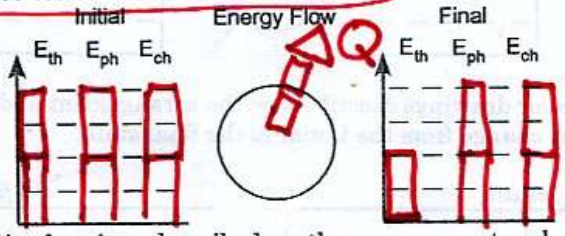
* IN THIS REGION, AS YOU ADD HEAT, IT ALL GOES INTO MAKING FASTER VIBRATIONS

IN THIS REGION AS YOU ADD HEAT, IT ONLY GOES INTO SEPERATING THE MOLECULES

East.H.S. ©λ€M|5+ry
visit http://genest.weebly.com

Name_____
Date_____
The test is this Friday. What's on it? See the class website.

1. A cup of hot coffee cools as it sits on the table.

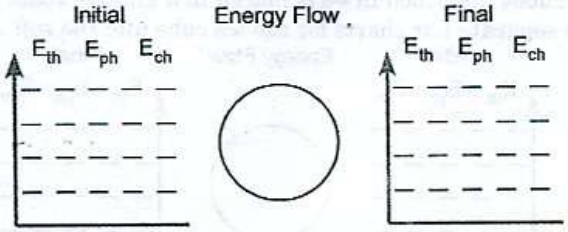


In words and/or drawings describe how the arrangement and motion of the molecules change from the initial to the final state:

initial: fast vibrations of liquid

final: slower vibrations of liquid

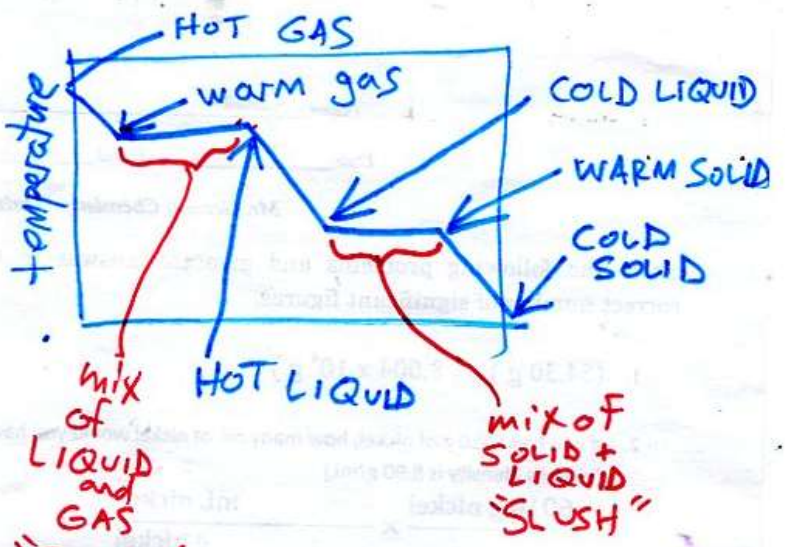
2. A can of cold soda warms as it is left on the counter.

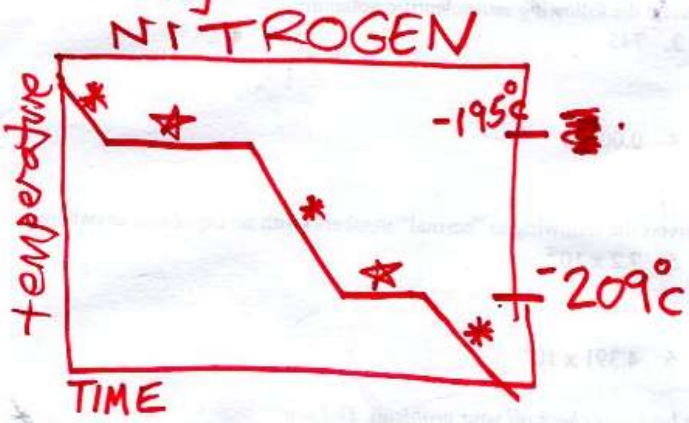


In words and/or drawings describe how the arrangement and motion of the molecules change from the initial to the final state:

initial:

final:





* at these times, adding energy makes nitrogen vibrate faster

★ at these times, added energy is only used to change phase and increase seperation.