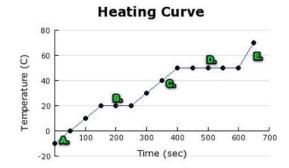
Section 2C Review

1) Using the following heating curve, fill in the table:

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	Part of	State(s)	Process that is	Temperature
	the curve	of Matter	happening	Range
	Α			
	В			
	С			
	D			
	E			



- 3) Earth's atmosphere is composed of a mixture of gases. List the three most plentiful gases found in the atmosphere.
- 4) List three changes in the atmosphere as the altitude increases from sea level to high altitude.

5) Sketch and label the four layers of the atmosphere.

6) This equation represents the production of ammonia (NH_3) by the reaction of nitrogen gas with hydrogen gas:

$$N_2(g) + 3 H_2(g) \rightarrow 2 NH_3(g)$$

- a) If 1 mol $N_2(g)$ reacts with 3 mol $H_2(g)$ in a flexible container at constant temperature and pressure, would you expect the total gas volume to increase or decrease? Why?
- b) How many moles of NH_3 would form if 12.0 mol N_2 react completely with hydrogen gas?
- 7) In a chemical reaction, 1 L hydrogen gas (H_2) reacts with 1 L chlorine gas (Cl_2) to produce 2 L hydrogen chloride gas (HCl). All volumes are measured at the same temperature and pressure.
- a) Write a balanced chemical reaction.
- b) If 19 L of H_2 gas react, how many liters of Cl_2 gas will need to react with it? How many liters of HCl gas will be made?

8a) Draw a homogeneous mixture of three different compounds.	8b) Draw a heterogeneous mixture of a compound and an element.
9a) Generation of carbon dioxide for the lab we did happened in a syringe. Why couldn't we do the mixing in a beaker?	9b) What are the 4 properties of carbon dioxide we observed from the lab?
10) Rank the different types of electromagnetic radiation from lowest to highest energy.	11) List one use of each of the 7 types of EM radiation.
12) What is the greenhouse effect? What are the gree	enhause aases2
12) What is the greenhouse effects what are the gree	imouse guses?
13) List one piece of information that suggests humans	
information that climate change is a naturally occurring	process.