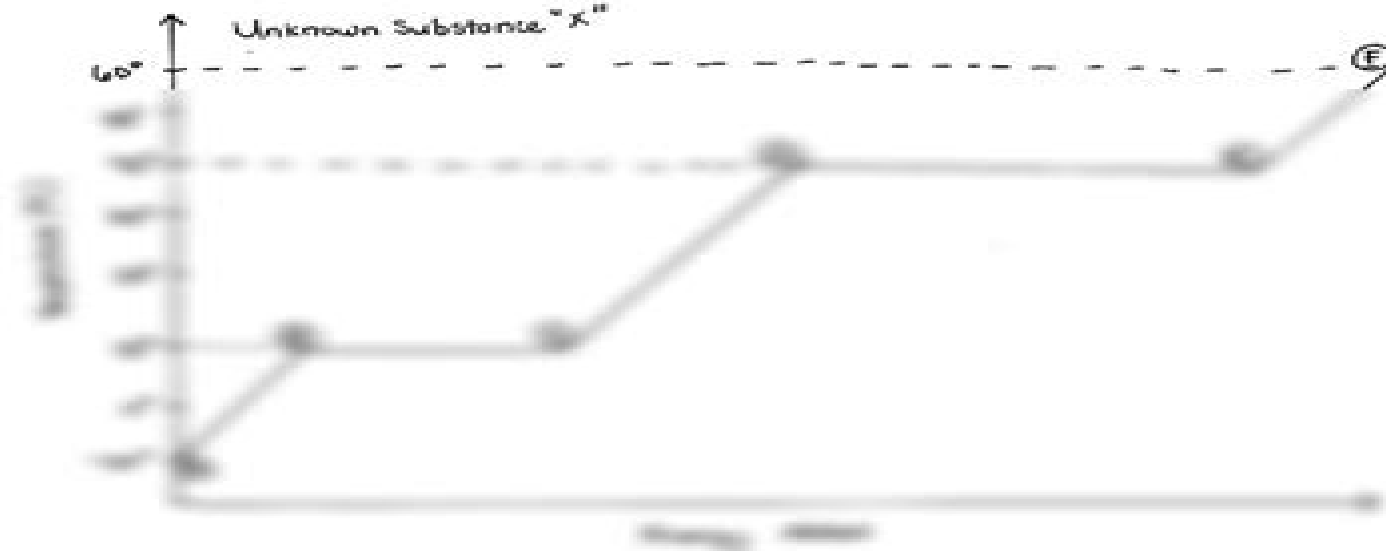


Heating Curves

1. What is "average Kinetic Energy"? Is associated with the energy of motion of particles. Temperature is a measure of average Kinetic Energy. The higher the temperature, the greater the movement of particles.

Use the following heating curve to answer questions #2-11.



2. What phase or phase changes are shown on the following heating curve?
- a. AB Solid
 - b. BC Solid to liquid
 - c. CD Liquid
 - d. DE Liquid to gas
 - e. EF Gas
3. What is the melting point of the substance? 30°
4. What is the boiling point of the substance? 50°
5. As energy flows from 20 to 30, what happens to the average kinetic energy? increases
6. As energy flows from 30 to 40, what happens to the average kinetic energy? increases/decreases
7. During which segments is the potential energy increasing? BC and DE
8. During which segments is the potential energy constant? AB, CD, and EF
9. What is displayed on the x-axis of the heating curve? Energy added
10. What is displayed on the y-axis of the heating curve? Temperature (°C)
11. In equation form, what does the x-axis energy in above that is being added while in equation form, what does the energy in above that is being removed

Review Activity A Heating Curve Answers

JR Anderson



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