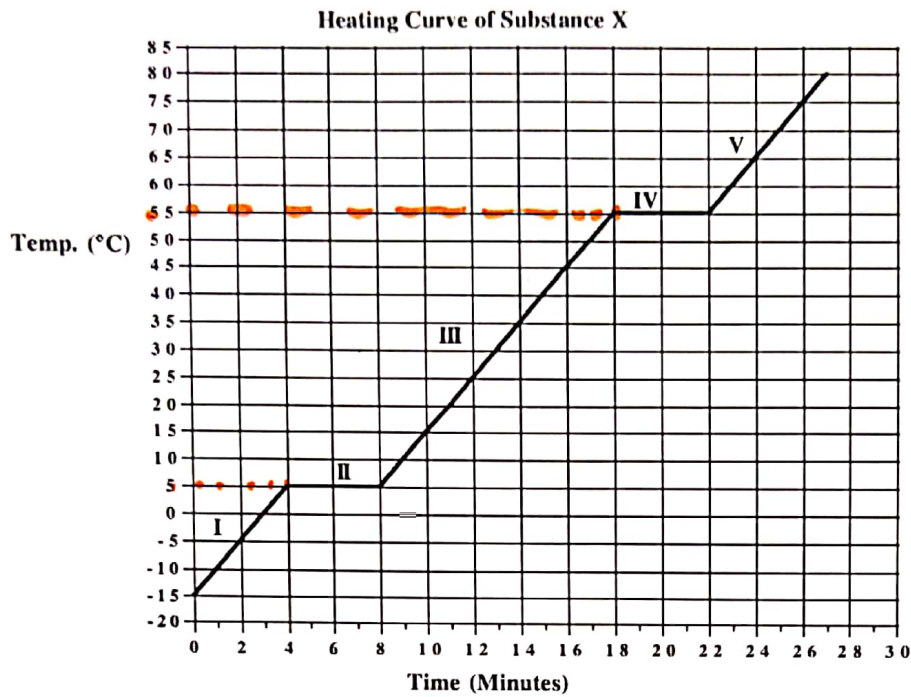


Heating Curve Worksheet

Name KEY



The heating curve shown above is a plot of temperature vs time. It represents the heating of substance X at a constant rate of heat transfer. Answer the following questions using this heating curve.

1. What part of the curve represents a mixed solid/liquid phase of substance X? II
(melting)
2. What part of the curve represents a mixed liquid/vapor phase of substance X? IV
(vaporization)
3. What is the melting temperature (point) of substance X? 5°C
4. What is the boiling temperature (point) of substance X? 55°C
5. In what part(s) of the curve would increasing kinetic energy be displayed? I, III, V
6. In what part of the curve would the molecules of X have the lowest kinetic energy? I
7. In what part of the curve would the molecules of X have the greatest kinetic energy? V
8. Label the graph below (substance Y) with solid, liquid, gas, vaporization, melting, freezing. 1 3 5 4 2 9 7 condensation

