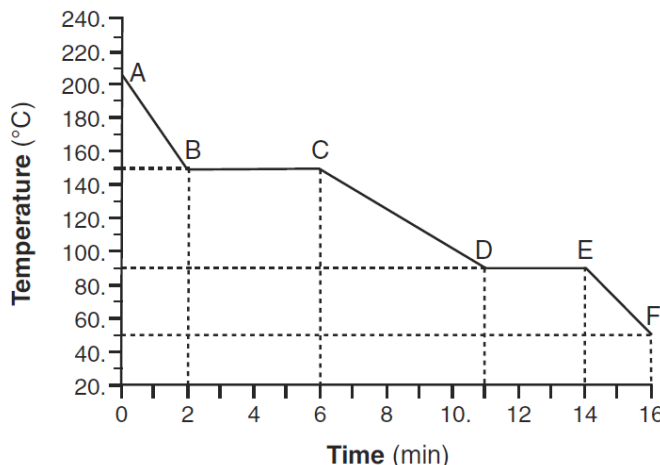




Cooling Curve for a Substance



Answer the following questions using the chart above.

1. Is energy increasing or decreasing moving right on the x-axis? decreasing
2. What is the freezing point of the substance? 90°C
3. What is the boiling point of the substance? 150°C
4. What is the melting point of the substance? 90°C (melting point = freezing point)
5. What segment represents the range where a solid is being cooled? EF
6. What segment represents the range where a liquid is being cooled? CD
7. What segment represents the range where a vapor is being cooled? AB
8. What segment represents the range where a vapor is condensing? BC
9. What segment represents the range where a liquid is freezing? DE
10. What range(s) show a change in PE? BC, DE
11. What range(s) show a change in KE? AB, CD, EF
12. What range represents vaporization? CB (reverse of condensation)
13. What range represents melting? ED (reverse of freezing)