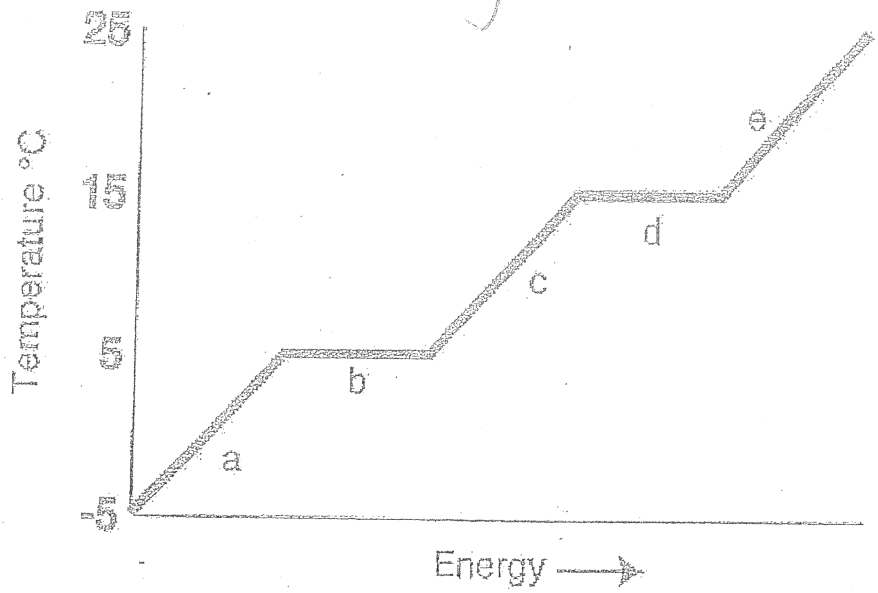
FREEZING AND BOILING POINT GRAPH

Name _____

Heating Curve



nswer the following questions using the chart above.

1. What is the freezing point of the substance? _____
2. What is the boiling point of the substance? _____
3. What is the melting point of the substance? _____
4. What letter represents the range where the solid is being warmed? _____
5. What letter represents the range where the liquid is being warmed? _____
6. What letter represents the range where the vapor is being warmed? _____
7. What letter represents the melting of the solid? _____
8. What letter represents the vaporization of the liquid? _____
9. What letter(s) shows a change in potential energy? _____
0. What letter(s) shows a change in kinetic energy? _____
1. What letter represents condensation? _____
2. What letter represents crystallization? _____

Convert the following temperatures

a) 26 °C = _____ K

b) 156 K = _____ °C

c) 26 K = _____ °C

d) 333 °C = _____ K

e) 100 K = _____ °C

f) 100 °C = _____ K

g) - 35 °C = _____ K

h) - 2 °C = _____ K

i) 273 °C = _____ K

j) -273 °C = _____ K

k) 1590 K = _____ °C

l) 2 K = _____ °C

2) If the temperature of a sample of water increases from 10 K to 50 K, what is the increase in temperature difference in degrees Celsius?

3) The freezing point of ethanol is -115 °C and its normal boiling point 78 °C. What is the freezing and normal boiling point in degrees Kelvin?

4 Label:
B.P., F.P., M.P., solid, liquid, gas