

Name: () Class: Date:

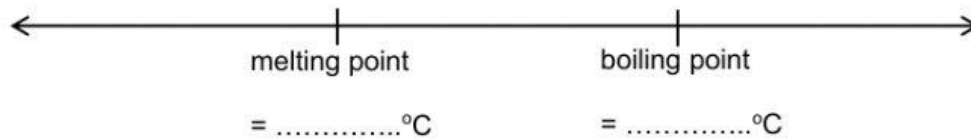
Topical Assignment: Kinetic Particle Theory I

- 1 Which information correctly describes the movement of particles in the three physical states?

	solid	liquid	gas
A	stationary	vibrate in fixed position	free to slide past each other
B	stationary	free to slide past each other	vibrate in fixed position
C	vibrate in fixed position	free to slide past each other	moving rapidly and randomly in all direction
D	vibrate in fixed position	vibrate in fixed position	moving rapidly and randomly in all direction

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- 2 Nitrogen has a melting point of -209°C and boiling point of -195°C



- a) State the physical state of nitrogen at -200°C
- b) State the physical state of nitrogen at -250°C
- c) State the physical state of nitrogen at -100°C

- 3 Potassium bromide has a melting point of 734°C and boiling point of 1435°C

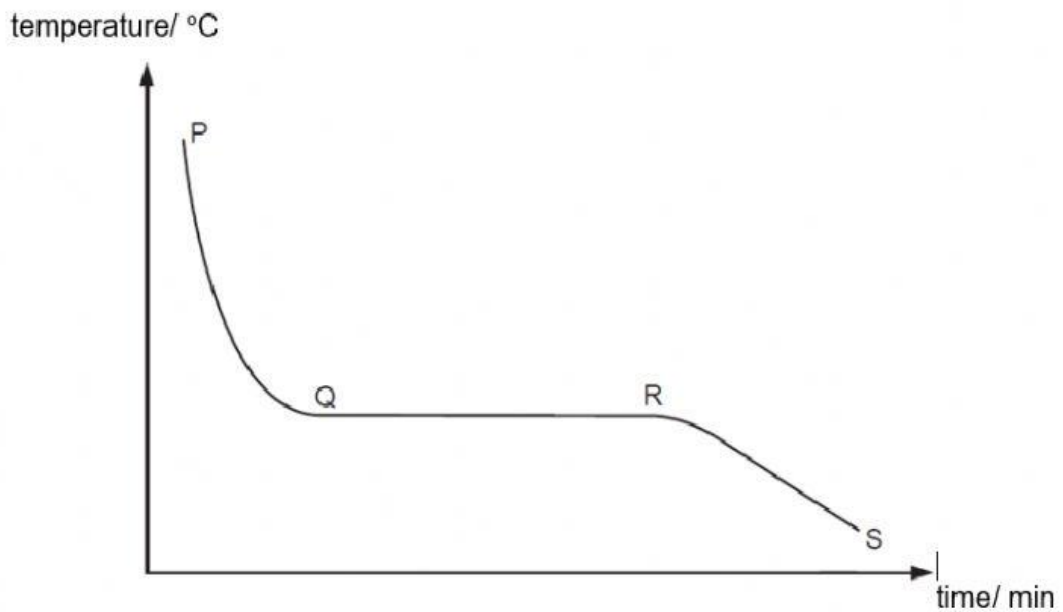


- a) State the physical state of potassium bromide at 25°
- b) State the physical state of potassium bromide at 400°C
- c) State the physical state of potassium bromide at 835°C
- d) State the physical state of potassium bromide at 2000°

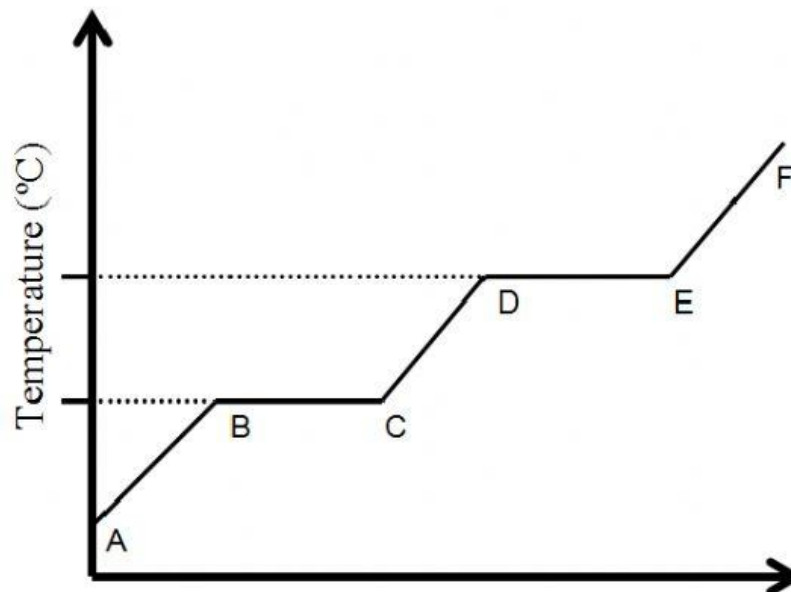
4 Label the following cooling curve with the following terms:

solid	freezing	gas	liquid + gas	solid + liquid
liquid	boiling	liquid	condensation	melting

a) The graph below shows the cooling curve of a **liquid substance** as it changes with time.



b) The graph below shows the cooling curve of a **solid substance** as it changes with time.



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