

Name _____ Class _____ Date _____

- 1 a Each circle in the diagrams below represents a particle of a substance.
Put a ring around the diagram showing the particles in a solid.

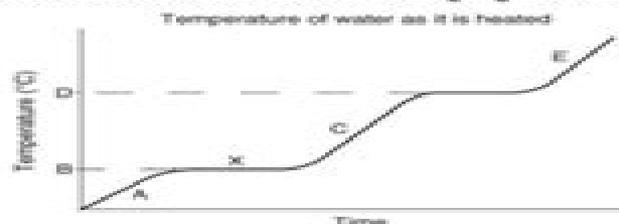


[1 mark]

- b Use the particle model to explain which state of matter can be compressed.

[2 marks]

- 2 The graph shows the temperature of a block of ice changing as it is heated.



Explain why the temperature is not changing at X.

[2 marks]

- 3 This is the formula for calculating density.

$$\text{density} = \frac{\text{mass}}{\text{volume}}$$

- a An object has a mass of 60g and a volume of 150cm³.
Calculate the density of the object in g/cm³.

[2 marks]

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