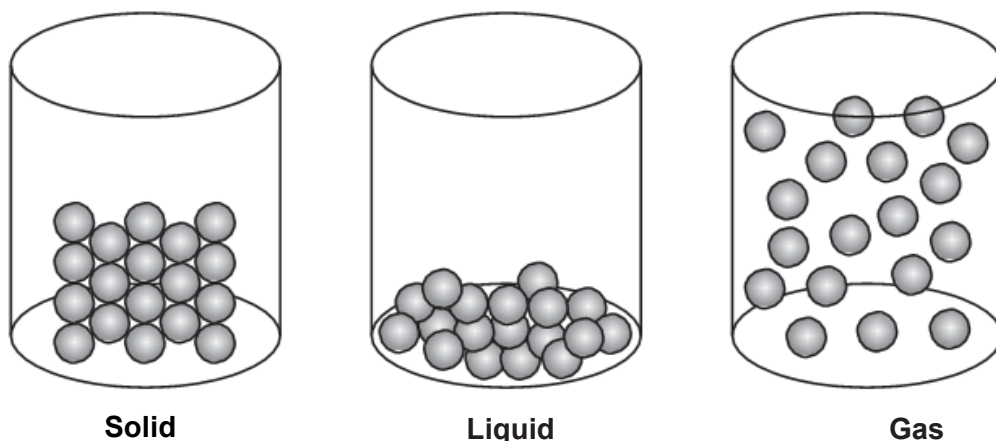


GCSE Physics B (Twenty First Century Science)
J259/02 Depth in physics (Foundation Tier)

Question Set 27

- 1 The diagrams show a model for the arrangement of particles in three states of matter.



- (a) Complete the following statements about the three states of matter.

Use words from the list.

You may use each word once, more than once, or not at all.

condensation vaporation reezing elting su imation

The physical change from a gas to a liquid is called Condensation

The physical change from a solid to a gas is called Sublimation

The physical change from a liquid to a gas is called evaporation [3]

- (b) Explain why the density of ice is higher than the density of water vapour.

Use ideas from the particle model, and the diagrams to support your answer. [2]

Same number of particles but closer together, so particles are packed closer together but water vapour's particles are far apart so greater number of particles per unit volume.

Total Marks for Question Set 27: 5

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