**P6 Particle model of matter Quiz Questions**

1. State the equation which links density, mass and volume.
2. State the units of density.
3. State the units of volume.
4. Name the change of state when a liquid becomes a solid.
5. Name the change of state when a solid becomes a liquid.
6. Name the change of state when a liquid becomes a gas.
7. Name the change of state when a gas becomes a liquid.
8. Sketch the heating curve for water.
9. Write down the equation of specific heat capacity.
10. Draw a particle diagram for a solid.
11. Draw a particle diagram for a liquid.
12. Draw a particle diagram for a gas.
13. Name the 4 properties of a gas.
14. In which state are the particles are arranged regularly?
15. In which state are the particles are arranged randomly, but touching?
16. In which state are the particles are arranged randomly and not touching?

**Exam question:**

**In this question you will be assessed on using good English, organising information clearly and using specialist terms where appropriate.**

The information in the box is about the properties of solids and gases.

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| Solids:      •        have a fixed shape      •        are difficult to compress (to squash).  Gases:      •        will spread and fill the entire container      •        are easy to compress (to squash). |

Use your knowledge of kinetic theory to explain the information given in the box.

You should consider:   
•        the spacing between the particles   
•        the movement of individual particles   
•        the forces between the particles.

(6 marks)