

Q1.

When water boils and turns into steam, there are changes in the arrangement of particles and the density.

Which of these shows the changes?

(1)

	space between particles in steam	density of steam
<input type="checkbox"/> A	bigger than in water	greater than water
<input type="checkbox"/> B	bigger than in water	less than water
<input type="checkbox"/> C	smaller than in water	greater than water
<input type="checkbox"/> D	smaller than in water	less than water

(Total for question = 1 mark)

Q2.

Which row of the table is correct for water compared to steam?

(1)

	the density of water is	the water molecules are
<input type="checkbox"/> A	bigger	smaller
<input type="checkbox"/> B	smaller	bigger
<input type="checkbox"/> C	bigger	closer together
<input type="checkbox"/> D	smaller	further apart

(Total for question = 1 mark)

Q3.

Figure 7 gives information about the density of aluminium.

	density in g/cm^3
solid aluminium	2.70
liquid aluminium	2.38

Figure 7

Explain the difference between the density of solid aluminium and the density of liquid aluminium in terms of the arrangement of particles.

(2)

.....

.....

.....

.....

(Total for question = 2 marks)

Q4.

The graph in Figure 13 shows how the **volume** of 1 kg of water changes with temperature.

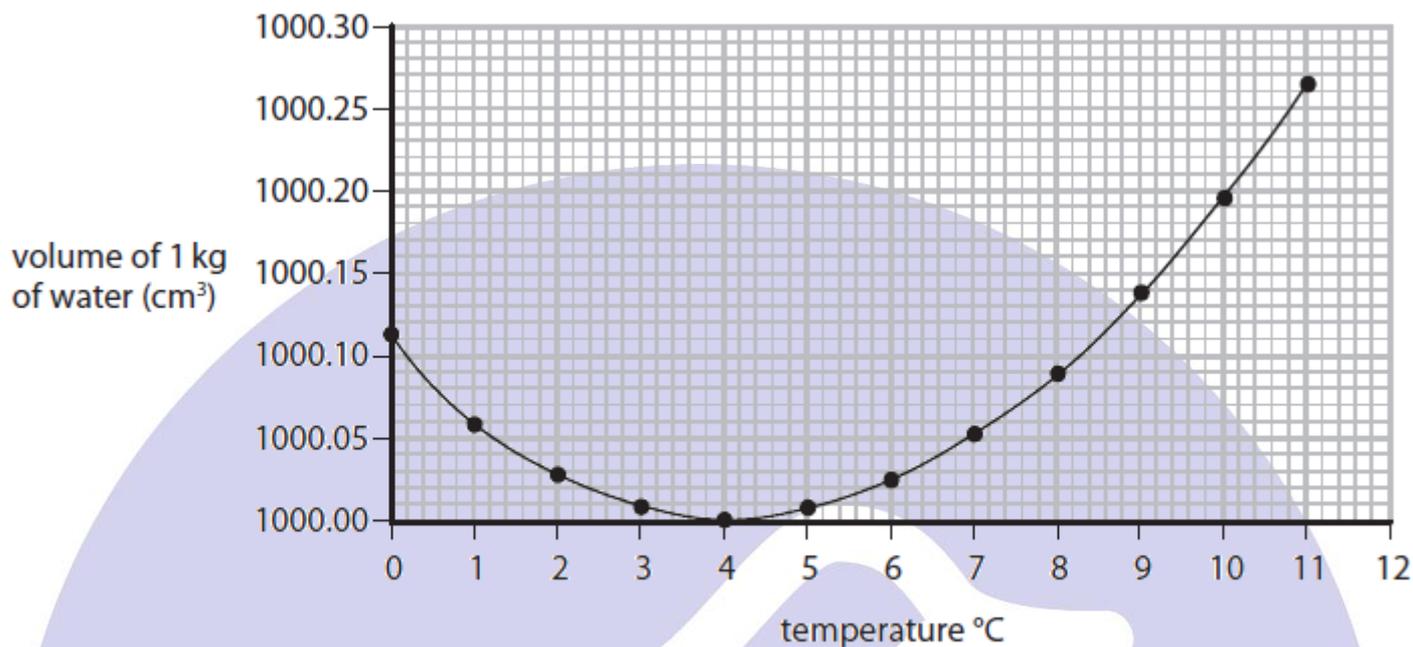


Figure 13

Describe how the **density** of water changes with temperature over the range of temperature shown in Figure 13.
Calculations are not required.

(2)

.....

.....

.....

.....

(Total for question = 2 marks)