

States of matter worksheet

States of Matter

Complete the sentences below:

There are three states of matter - (a) (b) and (c)

The particles in a solid are packed together. The particles are fixed in position, but they do v..... The particles in a can move around, but there is still very little between them. In a gas, particles move around very..... There are large between particles. When particles get closer together, for example when a gas c....., energy is given out. On the other hand, we need to supply to increase the distance between particles. An example is when a solid

1. (a) What do we call these changes:

(i) Solid $\xrightarrow{\quad}$ Liquid

(ii) Liquid $\xrightarrow{\quad}$ Gas

(iii) Gas $\xrightarrow{\quad}$ Liquid

(iv) Liquid $\xrightarrow{\quad}$ Solid

b) Which of the changes in (a) require us to provide energy, and which give out energy?

3. Describe the movement of the particles on a solid substance as it is heated to its boiling point.
