

Worksheet 2.3

States of matter and the kinetic model

1 Complete these sentences using the words below to fill the gaps.

gases closer particles randomly solids compressed

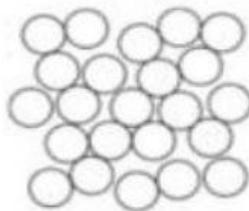
Everything is made up of tiny In and

liquids, these particles are close together, so solids and liquids cannot be In , these particles are far apart and moving

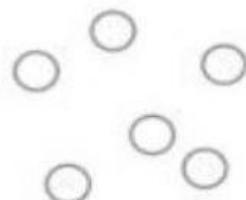
When a gas is compressed, the particles are pushed together.

2 a The diagrams below show how the particles are arranged in solids, liquids and gases.

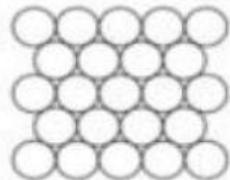
Label them correctly as solid, liquid or gas; and then answer the questions about the different states.



A



B



C

A = B = C =

b i Which state has the most ordered arrangement?

ii In which state is there the biggest distance between the particles?

iii In which state are the particles held firmly in place?

iv In which two states are the particles able to move from place to place?

v In which state are the particles the most free to move?