

The Particulate Nature of Matter (KS3)

Section A – Recall (1–2 marks each)

Q1 (1 mark)

Name the three states of matter.

Q2 (1 mark)

Which state of matter has a fixed shape and volume?

Q3 (1 mark)

Which state of matter can flow and take the shape of its container?

Q4 (1 mark)

Which state of matter has particles furthest apart?

Q5 (2 marks)

State TWO properties of solids.

Q6 (2 marks)

State TWO properties of gases.

Section B – Understanding (2–3 marks each)

Q7 (3 marks)

Explain the arrangement of particles in a solid.

Q8 (2 marks)

Explain why liquids can flow.

Q9 (3 marks)

Explain how gas pressure is caused.

Section C – Application (4 marks each)

Q10 (4 marks)

A student at *Learntit* sprays deodorant in one corner of a room. Explain why the smell spreads through the room.

Q11 (4 marks)

Explain what happens to particles when ice melts into water.

Section D – Extended Response (6 marks each)

Q12 (6 marks)

Explain the properties of solids, liquids and gases using the particle model.

Q13 (6 marks)

Explain changes of state using the particle model.

Total: ____ /36

Percentage: ____%