

Worksheet 1.5.1 Using particles to explain matter

1 Arrangement of particles



There are three states of matter: solid, liquid and gas. Draw three diagrams showing the arrangement of particles in a solid, a liquid and a gas.

2 Movement of particles



Describe how the particles are moving in:

a) a solid

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b) a liquid

.....

c) a gas.

.....

3 Energy and forces between the particles



a) Describe the relative energies of the particles in:

i) a solid

.....

ii) a liquid

.....

iii) a gas.

.....

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b) Describe the forces between the particles in:

i) a solid

.....

ii) a liquid

.....

iii) a gas.

.....

c) What evidence is there to prove that the forces are as described?

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