

Exercise 4: Page 57

1.

Property	Solid/liquid/gas
Restricted movement.	Liquid
Can be compressed significantly.	Gas
Diffusion takes place.	Liquid or gas
Crystal lattice	Solid
Very small spaces between the particles	Solid
Only vibrates	Solid

2.

Diffusion

Particles of liquid and gas move.

There are spaces between the particles.

The substance that diffuses moves from a high concentration to a low concentration.

It moves into the spaces of the other substance.

3.

Brownian motion

The random movement of particles from a high to a low concentration.

4.

Compressibility.

Fluidity of liquids

Diffusion

Pressure, temperature, density, volume

5.

Freezing point: this is the temperature at which a liquid completely changes into a solid.

6.1 None

6.2 Physical

6.3 Chemical

6.4 None

6.5 Chemical

6.6 None

6.7 Chemical

7.

A: gaseous state

B: liquid state

C: solid state

1. evaporation

2. melting

3. condensation

4. freezing/crystallisation

5. sublimation

8.1 D – F

8.2 H

8.3 C – D

8.4 G – I

8.5 F – G

8.6 B

8.7 E

8.8 G – I



- 9.1 Only vibrate.
- 9.2 Move in a random but restricted manner.
- 9.3 Move very fast.
- 9.4 Keep the object's shape, crystal lattice.
- 9.5 Fills the base of the container.
- 9.6 Fills the container.
- 9.7 Very small
- 9.8 Slightly larger than in solids
- 9.9 Very large

- 10.1 Solid
- 10.2 Liquid
- 10.3 Gas
- 10.4 Gas
- 10.5 Liquid
- 10.6 Gas
- 10.7 Liquid

