Science

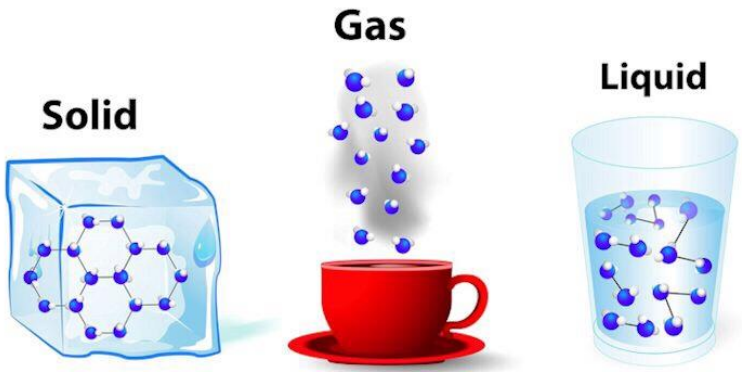
Level: Standard 2

Strand: Form and Function

Topic: States of Matter

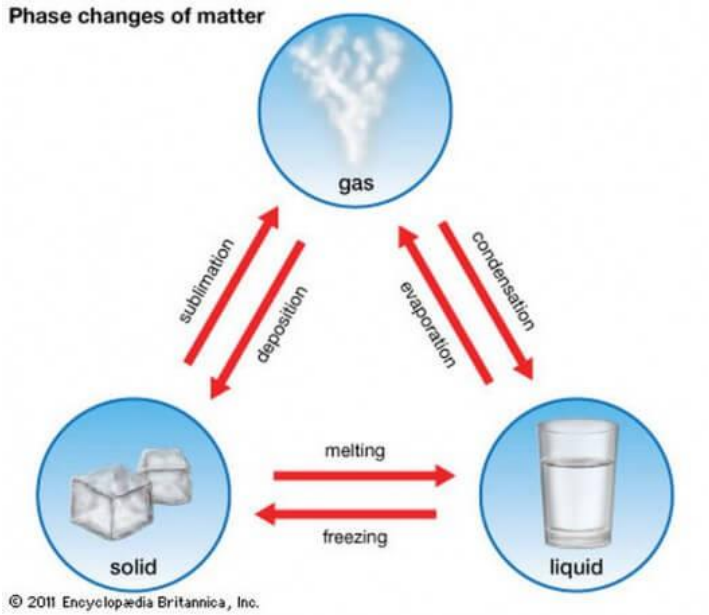
Key points:

- The three (3) States of Matter are Solid, Liquid and Gas



1. A solid keeps its shape and has a fixed volume.
2. A liquid has a fixed volume but changes in shape to fit the container.
3. A gas fills all available space; it has no fixed shape or volume.

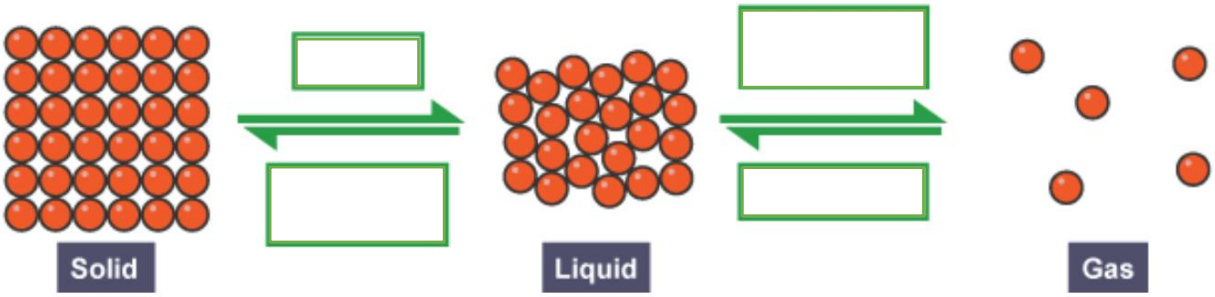
- Changes of state occur when matter i.e. solid, liquid or gas physically (volume or shape) changes from one state to another.



Activity 1: Complete the table below

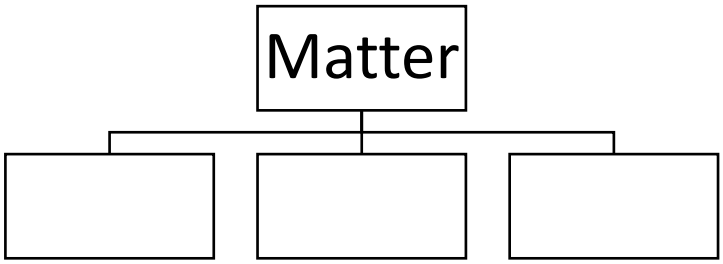
States of Matter	Shape/Volume
	Definite volume, take shape of container
Gas	
	Definite shape and volume

Activity 2: Fill in the name of the change of state in the blank green boxes



Assessment:

(i) Complete the following classification.



(ii) Fixed volumes are a characteristic of.

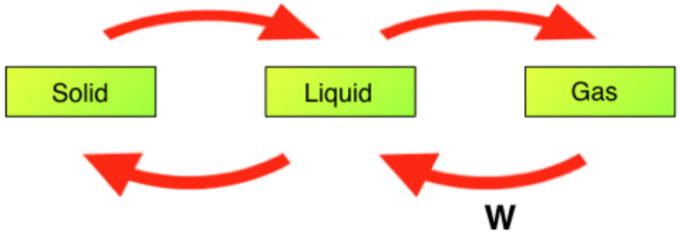
(a) Gases

(b) Liquids

(c) Solids

(d) Both (b) and (c)

(ii) The diagram shows the changes in state of water (H_2O). What is the process W called?



(a) Condensation

(b) Melting

(c) Boiling

(d) Freezing

(iii) Which state of matter has no definite shape and no definite volume?

(a) Gases

(b) Liquids

(c) Solid

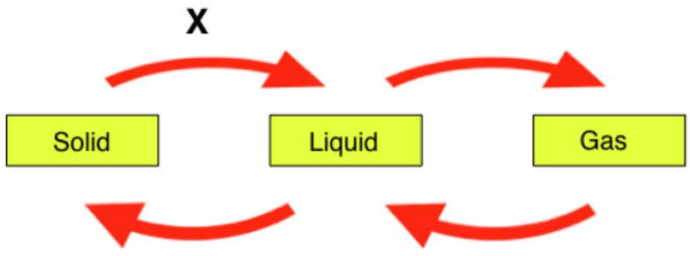
(d) Liquid and gases

(iv) Evaporation is the change in state of a

(a) Solid to a liquid (b) Liquid to a gas

(c) Gas to a solid (d) Gas to liquid

(v) The diagram shows the changes in state of water (H_2O). What is the process X called?



(a) Evaporation (b) Boiling

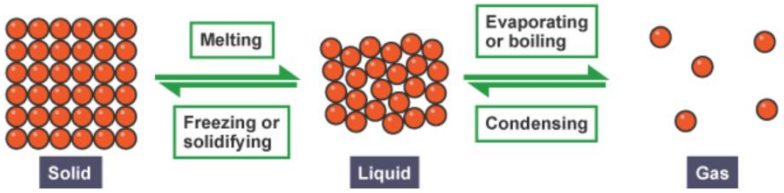
(c) Freezing (c) Melting

Answer Key:

Activity 1:

States of Matter	Shape/Volume
Solid	Definite shape and volume
Liquid	Definite volume, take shape of container
Gas	No definite shape or volume

Activity 2:



Assessment:

(i) Solid, Liquid Gas

(ii) (a)

(iii) (a)

(iv) (b)

(v) (c)

References:

- https://www.proprofs.com/quiz-school/story.php?title=states-matter-quiz
- https://www.britannica.com/science/phase-state-of-matter
- https://www.bbc.co.uk/bitesize/guides/z93jfcw/revision/2