

ICSE CHEMISTRY 7

Chapter 1: Matter and its Composition

Worksheet 1

1. Write T for true and F for false statement.

- (i) A substance from which an object is made is called a material.
- (ii) Anything that occupies space and has mass is called matter.
- (iii) The molecules of solid are loosely packed.
- (iv) Liquids have a definite shape.
- (v) A molecule may contain one or more atoms bonded together.

2. Fill in the blanks.

- (i) _____ and _____ have a definite volume.
- (ii) The molecules of _____ are very loosely packed.
- (iii) The tiny particles of matter are called _____ .
- (iv) The process of changing of liquid water into steam is called _____ .
- (v) The process of changing of a solid directly into a gas is called _____ .

3. Match the columns.

Column A	Column B
(i) Solids	(a) Nonrigid
(ii) Freezing	(b) Rigid
(iii) Liquids	(c) Change of a gas into a liquid
(iv) Condensation	(d) Change of a gas into a solid
(v) Deposition	(e) Change of a liquid into a solid

4. Answer the following questions.

- (i) Name the smallest particle of a substance which can independently exist in nature.
- (ii) In which state of matter is the intermolecular space negligible?
- (iii) Which have weaker intermolecular forces of attraction, solids or liquids?
- (iv) Is the interconversion of states of matter reversible in nature?
- (v) Name two substances which sublime easily on heating.

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Worksheet 2

1. Write T for true and F for false statement.

- (i) The amount of matter contained in an object is called its mass.
- (ii) In solids, the intermolecular forces of attraction are strong.
- (iii) Gases are rigid.
- (iv) The intermolecular space is greater in a liquid than in a solid.
- (v) The amount of space occupied by an object is called its volume.

2. Fill in the blanks.

- (i) _____ do not have a definite shape.
- (ii) _____ cannot be compressed.
- (iii) Matter can be changed from one state to another by changing temperature and applying _____.
- (iv) Molecules in a liquid possess _____ kinetic energy as compared to a solid.
- (v) Matter can be classified on the basis of its physical state and _____.

3. Match the columns.

Column A

- (i) Gases
- (ii) The smallest particle of a substance
- (iii) Solids
- (iv) This occupies space and has mass
- (v) Does not exist independently

Column B

- (a) Do not flow
- (b) Can flow
- (c) Atom
- (d) Molecule
- (e) Matter

4. Answer the following questions.

- (i) What is meant by intermolecular space?
- (ii) Write two properties of liquids.
- (iii) Define interconversion of states of matter.
- (iv) Which state of matter is noncompressible?
- (v) What is the space between the particles of a matter called?