



# CHEMISTRY

## BOOKS - ICSE

### MATTER AND ITS COMPOSITION

#### Exercise

1. Define matter.



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2. State three differences between mass and weight.



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3. If an object weighs 6 N on earth what will be its weight on moon ? What will be the change in its mass ?



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4. Write your observation and conclusion for the following:

(a) When few marbles are put in a glass half filled with water.

(b) Ice is kept at room temperature.



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5. State three main characteristics of the particles of matter.



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6. Differentiate between an atom and a molecule.



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7. Define:

(a) Solid

(b) Liquid

(c) Gas

Give two examples of each type.



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8. Why are liquids and gases called fluids?



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9. (a) Define: interconversion of states of matter.

(b) What are the two conditions for the interconversion of states of matter?



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**10. (b)** Why do solids, liquids and gases differ in their physical state ?



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**11. (c)** Under what conditions do solids, liquids and gases change their state ?



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**12. Give reasons :**

(a) When a stone is dipped in a glass containing some water, the level of water rises but when a spoon of sugar is added to it and stirred, the water level does not rise.

(b) A drop of ink added to water in a glass turns the whole water blue.



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**13.** Fill in the blanks :

( a ) Air is a matter because it has ..... and ..... and it can be .....



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**14.** Fill in the blanks :

(b) The molecules are made up of .....



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**15.** Fill in the blanks :

( c ) The quantity of matter in an object is called its .....



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**16.** Fill in the blanks :

( d ) The state of matter with definite volume and definite shape is called .....



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**17.** Fill in the blanks :

( e ) The substances which can flow are called

..... .



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**18.** Name the terms for the following :

(a) The change of a solid into liquid.

(b) The force of attraction between the molecules of matter.

(c) The particles of matter which may or may not have independent existence.

(d) The process due to which a solid directly changes into its vapours.

(e) The change of vapour into a liquid.



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**19.** Classify the following into solids, liquids and gases.

Oxygen, milk, common salt, wax, stone, L.P.G, carbon dioxide, sugar, mercury, coal, blood, butter, copper, coconut oil, kerosene.



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