



SHREE VASISHTHA VIDHYALAYA

Science Worksheet 2024-25

Name : Answer key

Std.:- IV

Roll No.:-

Worksheet - Term I-02

Date :-

Ch-9 Solids, Liquid and gases.

Q-1 Give reason

1) Solids are hard and rigid

Because the force of attraction between the molecules is very large.

2) The smell of the perfume spread quickly from one corner of the room to another.

Gas molecules move freely through the air, which is why we can smell perfume quickly.

3) Liquids change their shape according to the vessel in which they are poured.

Liquids have no fixed shape because the force of attraction between the molecules is not so large.

4) The volume of the solution formed is less than the total volume of the solute and the solvent.

Because solute occupy the space between the molecules of solvent.

5) Milk can be poured into any type of container.

Liquids like milk, oil, water etc do not have any fixed shape. Hence milk can be poured into any type of container.

6) Gases take up whole of the space available to them.

Because their molecules are very loosely packed.

Q-2 Choose the correct option.

1) In a sugar solution _____ is the solute.

☒ a) sugar

☐ b) salt

☐ c) water

2) Which of the following has a fixed volume?

☒ a) stone

☐ b) smoke

☐ c) air

3) _____ have a fixed shape and a fixed volume.

☒ a) Solids

☐ b) liquids

☐ c) gases

4) Ice changes into water on _____.

☒ a) Heating

☐ b) cooling

☐ c) freezing

5) Changes of water vapour into liquid is called _____.

☐ a) Evaporation

☒ b) condensation

☐ c) freezing

6) Matter is made up of tiny particles called _____.

☐ a) Solutes

☒ b) molecules

☐ c) solids

7) Substances which do not dissolve in a liquid are _____.

☐ a) Soluble

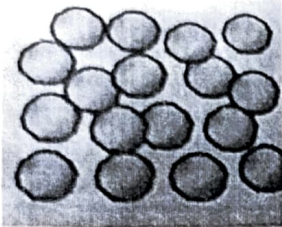
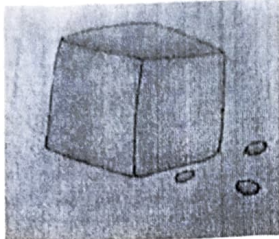
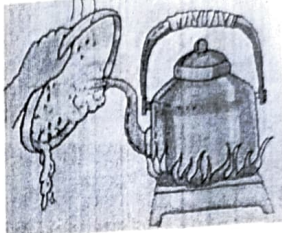
☒ b) insoluble.

☐ c) melting

Q-3 Fill in the blank.

- 1) A liquid changes into a solid on cooling
- 2) Liquid flow from higher level to lower level.
- 3) Soluble substances are those that dissolve completely in water.
- 4) Liquid takes the shape of of the vessel which contains them.
- 5) Things are different from each other because they are made of different material.
- 6) A solid does not flow and can be held in hand.
- 7) The molecules in a gas are very far from each other.
- 8) Hot water dissolves solid more quickly than cold water.

Q-4 Identify the following pictures and write their names

1) 	2) 	3) 
<u>Molecules of liquid</u>	<u>ice/ solid</u>	<u>Condensation</u>

Q-5 Match the following.

(A)	(B)
1. Salt	a. gas
2. Salty water	b. solvent
3. Solid	c. solution
4. Steam	d. solute
5. Water	e. loosely packed
6. Liquid	f. wood

Ans:

- 1- d
- 2- c
- 3- f
- 4- a
- 5- b
- 6- e

Q-6 Read the following two statements and choose the correct option.

1. Statement 1-Anything that occupies space and has weight is called matter.

Statement 2-Matter is made up of tiny particles called molecules.

☒ a. Both statement 1 and 2 are correct

☐ c. Statement 1 is incorrect but statement 2 is correct

☐ b Statement 1 is correct but 2 is incorrect

☐ d. Both statement 1 and 2 are incorrect

2. Statement 1-Solids have no fixed shape and volume.

Statement 2-Liquid have no fixed volume.

☐ a. Both statement 1 and 2 are correct

☐ c. Statement 1 is incorrect but statement 2 is correct

☐ b Statement 1 is correct but 2 is incorrect

☒ d. Both statement 1 and 2 are incorrect

3. Statement 1-Matter can be changed from one state to another by heating or cooling.

Statement 2- A solution is formed when a solvent is dissolved in a solute.

☐ a. Both statement 1 and 2 are correct

☒ c. Statement 1 is incorrect but statement 2 is correct

☒ b Statement 1 is correct but 2 is incorrect

☐ d. Both statement 1 and 2 are incorrect

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Chp-4 Plants and food

Q.7 choose the correct option.

1. There are tiny pores called _____ on the underside of a leaf.
☒ a. Stomata. b. Starch. c. Glucose
2. The process by which food is prepared in plants is called _____.
☒ a. photosynthesis b. protection c. food chain
3. The main ~~vein~~ of a leaf carries
a. chlorophyll. b. oxygen ☒ c. food
4. Air enters a plant through the stomata on its _____.
☒ a. leaves b. flowers c. stem
5. Which programme helps to save trees?
☒ a. Van mahotsav b. project tiger. c. operation flood
6. _____ are opening on the underside of a leaf.
☒ a. Stomata. b. Chlorophyll. c. oxygen
7. A plant takes in water from the soil and carbon dioxide from the _____.
a. Water. ☒ b. Air. c. Land
8. Photo means _____ and synthesis mean putting together.
☒ a. Light. b. Dark. c. Hollow
9. The main vein is called _____.
☒ a. Midrib. b. Cells. c. Apex
10. Animals and plants _____ on each other for survival.
a. Independent. ☒ b. Depend. c. Both

Q.8 Fill in the blanks.

1. Leaves are green because they have a green substance called chlorophyll.
2. The broad green part of the leaf is called the leaf blade.
3. Plants are the only living things which make their own food.
4. Plants make their food in the form of glucose.
5. A leaf is made up of thousands of cells.
6. Cells are closely packed together on the surface and loosely arranged in the centre.
7. The chlorophyll is present even in the croton leaves, but it is hidden by a red colour substance.
8. Mushroom grow during rainy season and look like little umbrellas.
9. In cactus plant food is made in their soft green stems.
10. The glucose is burnt to get energy so that the plant can grow and produce flowers, fruits and more leaves.