WORKSHEET

CLASS-VI

SUBJECT-Science

CHAPTER-3 Nature of Matter

| A. Fill in the blanks. | | |
|------------------------|---|--|
| 1. | ———- materials allow light to pass through them. | |
| 2. | Fragrance of agarbatti can reach another corner of the room through ——— | |
| 3. | substances dissolve in water, for example | |
| 4. | ——— of a gas decreases with ——— in temperature. | |
| 5. | Gases ——— into each other readily. | |
| В. | Write true or false. | |
| 1. | All substances dissolve in water always. ——— | |
| 2. | Blackboard is an opaque object. ——— | |
| 3. | Iron nails can float in a bucket full of water. ——— | |
| 4. | Hydrogen is slightly soluble in water. ——— | |
| 5. | Glass is a transparent material. ——— | |
| C. | Match the following. | |
| | | |

Pebbles. Man-material material
Oxygen. Insoluble in water
Plastic Classification

4. Grouping. Sink

5. Mustard Dissolves in water

D. Answer the following in brief.

- 1. Name any two materials which are i) natural ii) man- made
- 2. Define the terms a) solubility and b) diffusion with the help of examples.
- 3. Make a list of opaque and transparent materials present in your home.
- 4. How can the scent of a perfume spread in each corner of our home? Explain.
- 5. What is meant by a saturated solution?

E. Answer the following.

- 1. Differentiate between
 - a) Transparent and opaque materials
 - b) Soluble and insoluble materials
- 2. What is the effect of increase of temperature on solubility of substances?
- 3. Explain properties of the three states of matter giving examples of each.
- 4. Liquids have no fixed shape, only a fixed volume. Explain with an activity.
- 5. How are underwater animals able to survive?

F. Pick the correct option.

- 1. Gas which cannot dissolve in water
 - a. Hydrogen
 - b. Helium
 - c. Oxygen
 - d. Both a & b
- 2. Which out of these can float in a tub of water?
 - a. Plastic
 - b. Spoon
 - c. Flower petals
 - d. Marbles
- 3. Solubility of a gas ——- with increase in its temperature.
 - a. Increases
 - b. Decreases
 - c. Remains the same
 - d. None of above
- 4. Which of these are insoluble in water?
 - a. Kerosene
 - b. Mustard oil
 - c. Ghee
 - d. All of these
- 5. Amount of sugar dissolved in water which is hot is
 - a. Less
 - b. More
 - c. Same
- d. No effect of temperature
- 6. Which of the following is insoluble in water?
 - a. Sand
 - b. Sugar
 - c. Salt
 - d. None of these
- 7. Liquids have
- a. Fixed shape and volume both
- b. Only fixed volume
- c. Neither fixed volume nor shape
- d. None of above
- 8. Matter shows the following properties
- a. Sinks in water
- b. Occupies only space
- c. Occupies space and has mass
- d. Both a & b
- 9. Which of these is a transparent material?
 - a. Wood
 - b. Glass
 - c. Bricks
 - d. Thick plastic
- 10. Diffusion does not happen in the following.

- a. Solids
- b. Liquids
- c. Gases
- d. All of these
- G. Let's do a Science experiment.

Collect materials available daily in your home and check whether they will sink or float in water .