

Chapter 8

Properties of Water

- Fill in the blanks
 - When a substance dissolves completely in any medium, we get _____.
 - The medium in which substance dissolves, is known as _____.
 - _____ gas is insoluble in water.
 - _____ floats on surface of water.
 - The process of conversion of vapor.
 - _____, when just formed are purest form of water.
 - _____ material which sink in water.
 - Water mainly exists in liquid form can be changed into vapor or solid form by changing its _____.
- State whether given statements are true/ false
 - The medium in which substance dissolves known as _____.
 - All the insoluble solids sink in the water.
 - Water from water bodies changes to vapor due to evaporation.
 - Most of the rain water goes back to river and seas.
 - Thermocole floats on the surface of water.
- Match the following

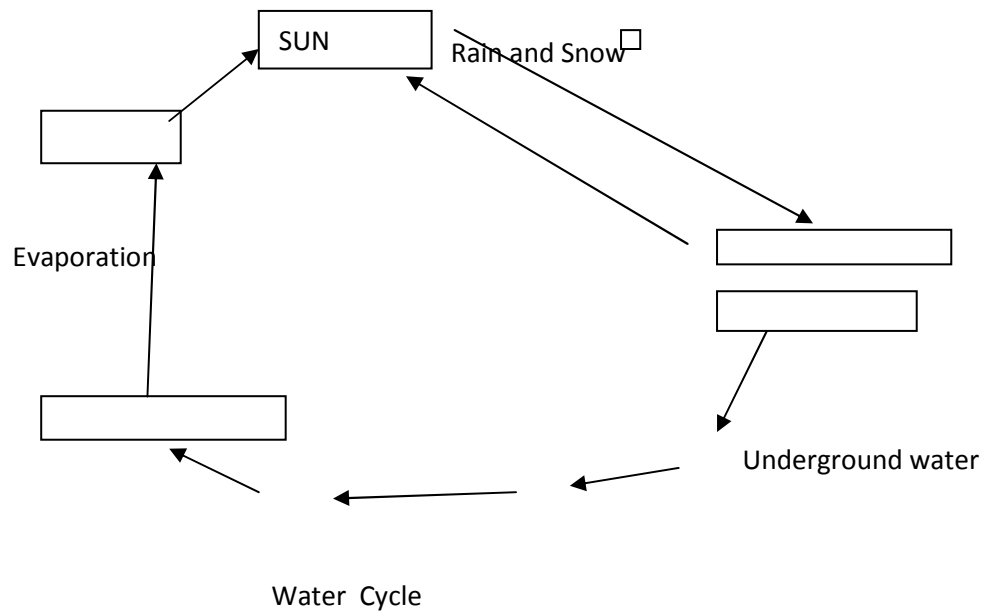
Column A	Column B
Nimbu pani	Change of liquid to vapors
Salt	Insoluble in water
Water	Solution
Mustard oil	Soluble in water
Evaporation	Solvent

- Multiple choice questions**
 - Water can be changed from liquid to vapor by**
 - Changing of temperature**
 - adding salt**
 - adding sugar
 - none of the above.
 - When we add butter to water it _____ in water.
 - Sinks
 - Floats
 - dissolves
 - none of the above
 - In the water cycle clouds are formed due to**
 - Condensation
 - Evaporation
 - solution formation
 - none of the above
 - The water can exist in nature in _____ physical states.
 - 4
 - 3
 - 5
 - 1
- Define the following terms
 - Solvent
 - Condensation
 - Evaporation
- Answer the following

- a) Name 2 gases that are soluble in water.
 - b) How do aquatic animals oxygen?
 - c) When does substance float/ sink in water?
 - d) **What** decides that a material shall sink/ float in water?
 - e) How are the rain drops formed?
 - f) **Why are the rain drops impure when they reach earth?**
 - g) What do we get when we dissolve solute in a solvent?
7. The student should collect different things in their house and put them in a bowl of water and note whether they sink/ float / Soluble

S. N	Name of Substance	Sink/ Float/ Soluble

8. Make a chart depicting the water cycle.
9. Write a small story or a paragraph about the journey of a rain drop.
10. Complete the cycle



Chapter 9

Fuel

1. Fill in the blanks

- A substance that produces energy on burning is called a _____.
- _____ is an example of gaseous fuel.
- In early ages man used _____ as main fuel.
- _____ fuels do not produce smoke on burning.
- _____ powered vehicles have lower maintenance.
- Powerhouse often burn _____ to convert water to steam.
- _____ are fuels that are formed by decomposition of animals and plants buried under the surface of the earth.
- Coal and petroleum are two of _____ sources of energy.
- _____ is waste matter of animals and plants.

2. Match the following

Column A	Column B
LPG	Fuel causes less environmental pollution
CNG	Fossil fuels
PNG	Compressed natural gas
Petroleum	Piped natural gas
Green fuel	Liquified Petroleum gas

3. State whether given statements are true/ false

- Both coal and petroleum are fossil fuel.
- Coal is combustible black sedimentary rock.
- PNG is used as fuel in buses.
- The generation of electricity, where coal is used to convert water to steam is eco friendly.
- Solar energy is renewable source of energy.

4. Multiple choice questions

- Which of them is green fuel?
a) Petrol b) Coal c) CNG d) Kerosene
- Which of them is not used as domestic fuel?
a) Petrol b) CNG c) PNG d) LPG
- CNG, PNG, Biogas are referred to as _____.
a) Cleaner fuels, b) Fossil fuels c) Coal d) none of the above
- Solar energy is renewable source of energy because
a) Cannot be replenished b) can be replenished c) can burn easily d) does not produce ash

5. Answer the following questions

- Name two renewable source of energy.
- Why food consumed is fuel for our body?
- Why are gaseous fuel known as cleaner fuels?

- d) Why do buses, auto rickshaw prefer to use CNG?
 - e) What are the different uses of fuel?
 - f) Which fuel was used to run trains in earlier days?
 - g) Name the fuel being used by aeroplane.
 - h) How is coal formed?
 - i) Name 3 main fossil fuel.
 - j) How are renewable source different from non-renewable source of energy?
 - k) Why do we need to conserve fuel?
6. The students should make list of different fuel used in their house and its purpose.

S.N	Name of the fuel	Purpose of the fuel
1	PNG	For cooking in the burner

7. List the different type fuels present around them and classify them as renewable and non-renewable.

S.N	Name of the fuel	Renewable/ Non-renewable

- 8. Make a poster for conservation of energy.
- 9. Write a slogan to encourage the use of alternative source of energy