

UNIT: 2 - WATER

CLASS: IV

SUBJECT: SCIENCE

I. Choose the correct answer.

1. Water is the most _____ resource on the Earth.
(a) precious (b) solid (c) gas
2. Water exists in _____ states.
(a) two (b) three (c) four
3. At temperature below _____ water freezes to form ice.
(a) 10°C (b) 100°C (c) 0°C
4. _____ is the process by which water becomes water vapour.
(a) Condensation (b) Evaporation (c) Freezing
5. Which controls the ecological functions of life?
(a) Bicycle (b) Water cycle (c) Recycle water

II. Fill in the blanks with suitable answer.

1. Water is converted into water vapour when it is heated.
(ice cube / water vapour)
2. Water becomes ice on freezing (heating / freezing)
3. Water droplets combine to form clouds (rain / clouds)
4. Water cycle increases the availability of ground water
(water tank / ground water)
5. Roof top harvesting is a type of rainwater harvesting
(Roof top harvesting / Watercycle)

III. Write True or False.

1. Water is a good example for all states of matter. **TRUE**
2. Water cycle controls Earth's temperature. **TRUE**
3. Water becoming water vapour on heating is called evaporation. **TRUE**
4. 37% of our brain's mass consists of water. **FALSE**

5. Roof top harvesting method is used in agriculture field. **TRUE**

IV. Answer briefly.

1. Write the states of water.

1. Solid,
2. Liquid,
3. Gas.

2. What is freezing?

Ice is a solid form of water. At temperature below 00 C water becomes ice. This process is called freezing.

3. Name the processes involved in water cycle.

The continuous cycle through which water is circulated by different processes like evaporation, condensation and precipitation is called water cycle.

4. Which state government made rain water harvesting as mandatory in the year 2001?

The rain water harvesting was launched in the year 2001 by the Tamil Nadu Government.

5. What is needed to construct a rain water harvesting pit?

Construct a pit of any shape or size.

It may be generally constructed, 1-2 metre wide and 2-3 metre depth. The pits can be filled with boulders, gravels and Coarse sand.

V. Answer in detail.

1. What is water cycle? Write any three importances of water cycle.

Importance of water cycle

- To improve the availability of ground water.
- To control the Earth's temperature.
- To provide water to plants and animals especially humans.
- To recycle the Earth's supply of water constantly.

2. What is rain water harvesting? List out the advantages of rain water harvesting.

'Rainwater harvesting' is the process of collecting and storing rainwater for future use. Rainwater can be collected in natural reservoirs or artificial tanks. Roof top harvesting is also a type of rainwater harvesting.

Benefits of rainwater harvesting

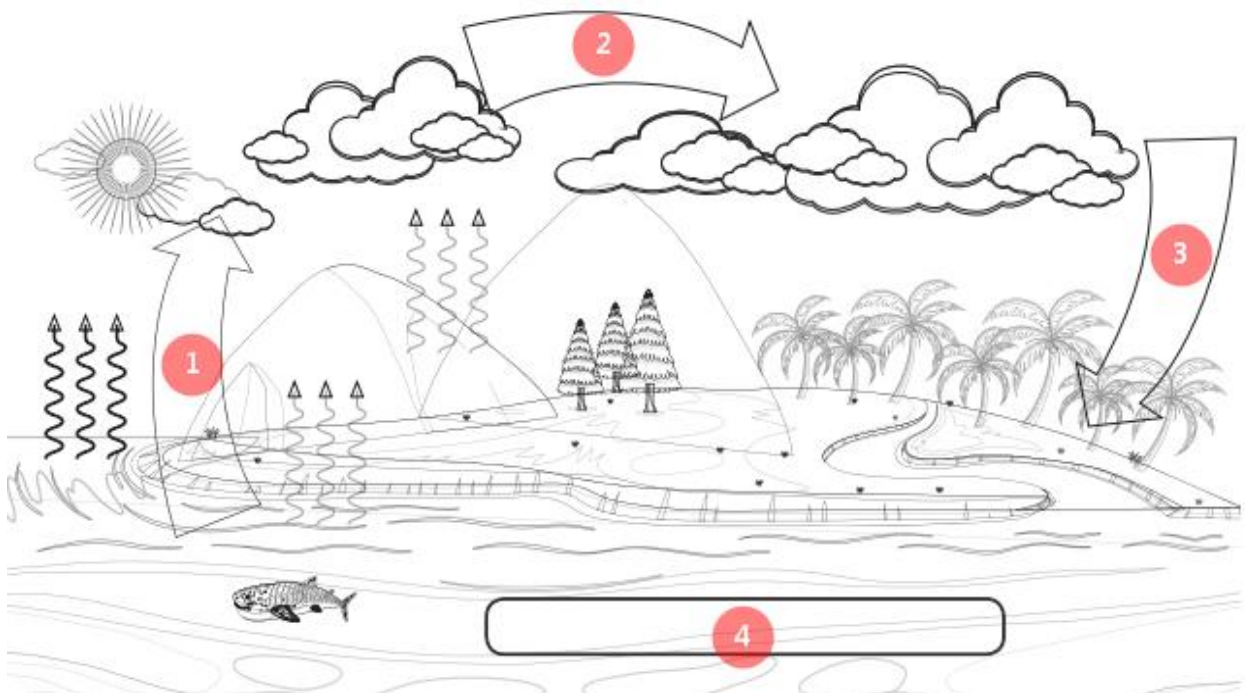
- It increases the ground water level
- It can be used for agriculture
- It increases the availability of water for living things

VI. Colour the given picture and write the correct name in the given blanks.

(Precipitation, Evaporation, Condensation, Water storage)

Answer:

- 1 - Evaporation
- 2 - Condensation
- 3 - Precipitation
- 4 - Water Storage



TRY TO ANSWER:

1. Why water is a good example for all states of matter?

Ans: It is only the natural substance.

2. Which of the following is in liquid state? Rain/ Ice/ Snow.

Ans: Rain

LET US DO:

1. Fill water in an ice tray and keep it in the freezer. After few hours, take it out. What happened to the water?

Ans: It becomes ice (Solid).

2. Now keep this ice tray on a table for some time. What happens to the ice?

Ans: Ice cube melt and turn into water.

3. Pour water from the ice tray into a kettle. Ask an elder at your home to heat the kettle and observe the mouth of the kettle when the water starts boiling. What do you see?

Ans: Water change into water vapour.

4. Write any two water bodies in your area.

Ans: River , lakes.

TRY TO ANSWER:

1. In the water cycle _____
a. only evaporation is involved b. only condensation is involved

c. evaporation and condensation are involved.

2. Unscramble the words and fill in the blanks.

ondencsaonti, vaeionorpat, ecippitatrino

Condensation, Evaporation, Precipitation.

3. Is water cycle important for farming? **Yes**

4. Why is water cycle important to human? **Avilability of ground water.**

5. Name the process which is responsible for the formation of droplets on the surface of a glass of cool drink. **Condensation.**

TRY TO ANSWER:

1. List out some other benefits of rain water harvesting.

- i) Collecting and using rainwater to replace municipal water use reduce water bill.
- ii) Rain water can be used for irrigation use, indoor non potable water use, and/ or potable water supply.

2.2. Suggest some ideas to save rainwater in your school.

- i) Collect the excess of water use it wisely.
- ii) Create a rain water garden.

