

FORMS OF WATER

Water has three different forms. It is **solid** as **ice**. It is **liquid** as **water**.



Solid



Liquid Water



On Boiling

It is **gas** as **steam** or **vapour**. Ice melts and becomes water. Water, when heated, turns into **vapour**. This is called **evaporation**.

Solid form of water

Take some water in the tray of a refrigerator.

Keep it in the freezer. After an hour or two, take it out. Water has now changed into solid. This process is called **freezing**. Solids do not change their shape when transferred from one vessel into another. It is hard.

Feel the ice cubes. They are hard. They do not change their shape when transferred from one vessel to another.

Liquid form of water

Liquids do not have any definite shape. They take the form of the vessel in which they are poured. Water is a liquid. Pour it in a glass and it takes its shape. Liquid flows from a higher to a lower surface. Rain-water flows from the roof into the drains.





Gas form of water

Water is a gas when it is in the form of steam. Take a kettle full of water. Put it on fire. When the water boils, it turns into steam. Steam is a gas. When steam or water vapour is cooled, it again changes into water. This process is called **condensation**.

Test your Self

1. Name the three forms of water.

2. Ice is which state of water ?

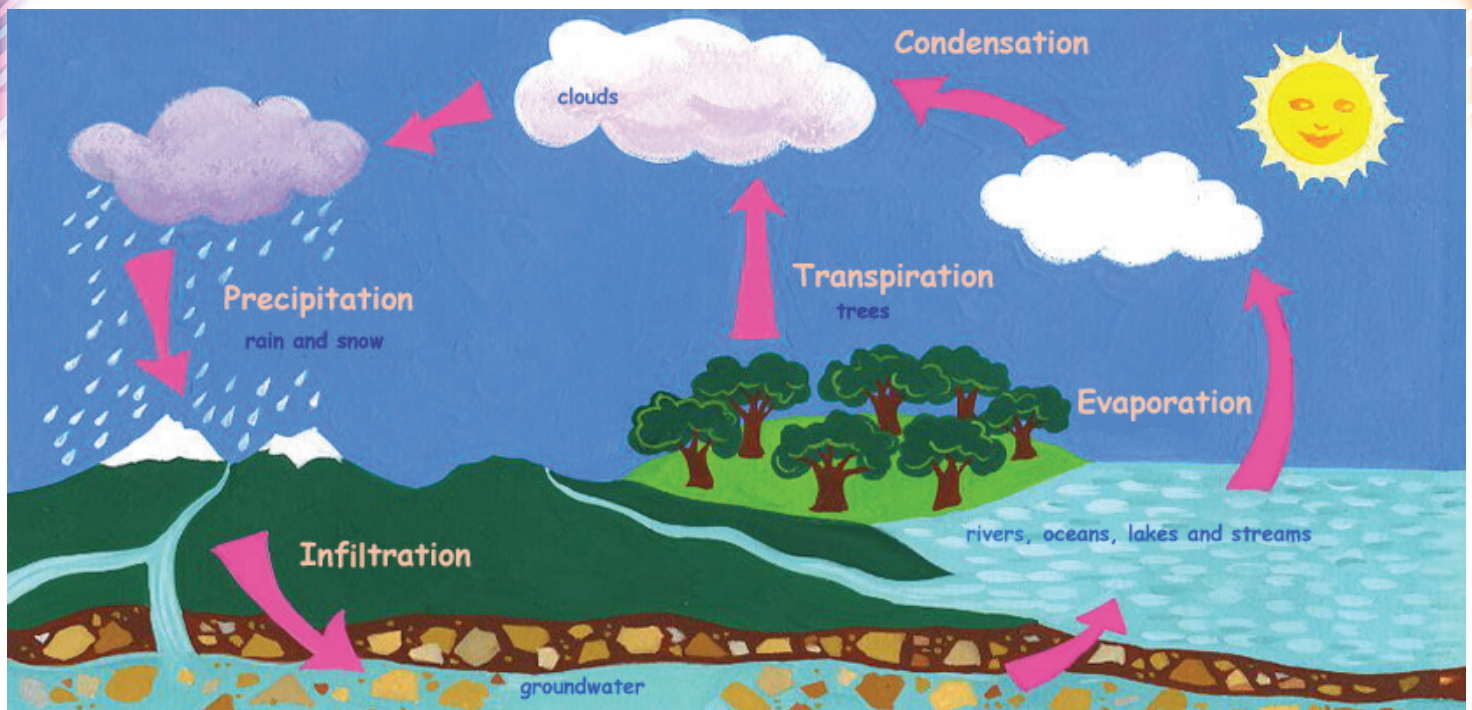
3. What happens to water on heating ?

4. What happens to water kept in a freezer?

THE WATER CYCLE

In summer, water evaporates from lakes, rivers and seas. It turns into water vapour. Water vapour forms clouds. When the water vapour in the form of clouds is cooled, it changes back into water.

In the rainy season, the rain-water goes into rivers. Rivers flow to the seas. Thus water moves in a cycle. The water vapour rises from the sea and forms clouds, the clouds bring rains, the rain-water flows to the rivers, and the rivers join the seas, bringing the water back to its source.



This is called the **Water Cycle**.

Know the Keywords :

Water Vapour : Steam or gas.

Evaporation : Process of changing of water into water vapour on heating.

Condensation : Process of cooling of water vapour to form water.

Water Cycle : Changes in water forms, forming a continuous cycle.

Point to Remember

- Solid, liquid and gas are the three forms of water.
- On heating, water changes into water vapour called steam.
- On cooling, water changes into ice.
- In nature, water keeps changing its form. This is called the water cycle.

EXERCISE TIME

A. Multiple choice questions (MCQs).

Tick (✓) the correct option :

1. Which form of water is steam?

a. solid

b. gas

c. liquid

2. When water is heated, it changes into _____.

a. ice

b. gas

c. ground water

3. The changing of water vapour into water is called—

a. condensation

b. evaporation

c. water cycle

B. Tick (✓) the correct and cross (X) the incorrect ones :

1. Water has three forms.

2. Ice is liquid form of water.

3. Steam is gas from of water.

4. Solids have no definite shape.

C. Fill in the blanks with the given words :

ice, solid, gas, steam

1. When water is boiled, it changes into _____.

2. Steam is a _____.

3. When water is frozen, it becomes _____.

4. Ice is _____ form of water.

D. Answer the following questions :

1. What is a solid?

2. What is a liquid?

3. What is a gas?

4. Explain the water cycle.



Creative Work

- Make ice cubes from water in a refrigerator.
- Boil water in a kettle till it turns into vapour.
- Watch the rain water and see where it goes.