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Prepared on : \_\_\_\_\_

Subject: Science  
L-13 Air and water

### I. Keywords

- |             |                   |
|-------------|-------------------|
| 1. Survive  | 6. Nitrogen       |
| 2. Elements | 7. Oxygen         |
| 3. Breeze   | 8. Evaporation    |
| 4. Gale     | 9. Condensation   |
| 5. Storm    | 10. Precipitation |

- ### II. Pre-activity.
1. What are the two most important elements for the survival of life on earth?
  2. What happens to a balloon when we blow air into it?

### III. Short answer questions.

Write two uses for each of the following:

1. Precipitation
2. Oxygen

- Ans. 1. Precipitation contributes to the Earth's weather. It provides humans a constant source of fresh water. It helps plants to live and reproduce.
2. Animals and human beings need oxygen to survive. They breathe in oxygen. It is also used in the process of combustion (burning of things).

### IV. Long answer questions.

1. How can we know that air is moving? Give two examples.

Ans.

- We may not be able to see air but we can know that air is all around us.
- We can feel it go in and out of our nostrils as we breathe.
- We feel it when a gentle breeze brushes against our skin.

2. Define gale. How is it different from wind?

Ans. Gale is a harsh or strong wind.

The difference between wind and gale is :

- Wind is the general movement of air from one place to another.
- Gale is a specific term used for strong and harsh winds.

3. What is the difference between evaporation and condensation?

Ans. The difference between evaporation and condensation is :

Evaporation: The process of changing water into water vapour on heating.

Condensation: The process of changing water vapour back into liquid on cooling.

4. Describe the water cycle and draw it.

Ans. The water cycle is how water moves around Earth:

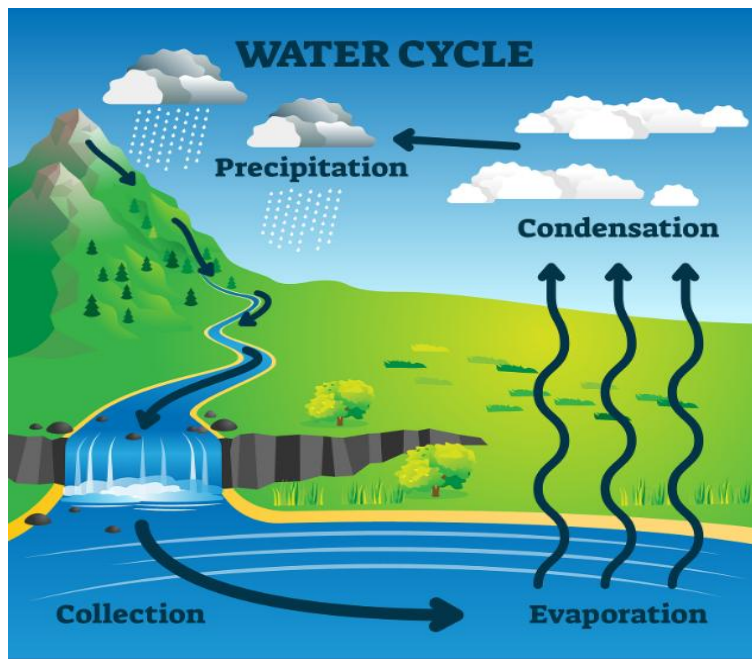
**Evaporation:** The sun heats water in rivers, lakes, and oceans, turning it into water vapor.

**Condensation:** The water vapor rises, cools, and turns into tiny droplets, forming clouds.

**Precipitation:** When clouds cool more, the water falls as rain.

**Collection:** The rainwater goes back into rivers, lakes, and oceans.

This cycle keeps repeating.



5. Explain why air and water are important for us.

Ans.

- All life forms need air and water to survive.
- Air is made up of many gases. It has oxygen, which humans and animals use to breathe.
- It has carbon dioxide and nitrogen which is used by plants to make food.
- We use water to drink, cook, bathe, clean, wash, etc

## V. HOTS

1. Why is noon the hottest time of the day?

Ans. Noon is the hottest time of the day because during noon time the Sun is right above us and the rays of the Sun fall directly. The direct rays of the Sun are hotter than the slanting rays.

**VI. Post activity:** What are the different states of water? Use a diagram to show the conversion of water to other two states.

Subject Teacher

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