

CLASS – 5

SUBJECT-SCIENCE WORKSHEET

TOPIC: AIR AND WATER

SYNOPSIS:-

- **Atmosphere** is the layer of air surrounding the earth's surface.
- Air is necessary for life. Air is a mixture of many gases. It contains about 21% of **oxygen**, 78% of **nitrogen** and 1% other gases like **carbon dioxide, argon, hydrogen, ozone, water vapour , helium, neon, etc.**
- **Oxygen** is the most important gas. All living things require oxygen to live.
- **Carbon dioxide** is used by plants to make their food by photosynthesis.
- **Neon** is used in electric lights. And **argon** is used to produce an orange glow in glass tubes.
- The amount of water vapour in the air is called **humidity**.
- When we breathe, we take in fresh air, this is also called **inhaled or inspired air**.
- The air we breathe out is called **exhaled or expired air**.
- **Properties Of Air:-**
 - Air is used for burning
 - A part of Air is used for burning
 - Air is used to inflate things
 - Air has weight
 - Air exerts pressure
- **Uses of Air Pressure in our daily life:-**
 - While sipping juice
 - While using a dropper
 - While using a syringe
- We measure the air pressure with an instrument called **barometer**.
- Burning and breathing both give out carbon dioxide.
- The green leaves of the plants take in carbon dioxide during the process of **photosynthesis** to make their own food and release oxygen gas. In this way, the balance between the oxygen and carbon dioxide has been maintained.
- Water is known as the universal solvent.
- There are two kinds of **impurities:-**
 - Soluble impurities

- Insoluble impurities
- Insoluble impurities can be separated from water by **decantation, sedimentation and filtration.**
- Soluble impurities can be separated from water by **evaporation and distillation.**
- **Purification of drinking water:-**
 - Chlorination
 - By adding potassium permanganate
 - Boiling

EXERCISE:-

Fill in the blanks:-

1. Water which is fit for drinking purpose is called _____.
2. The two kinds of impurities are _____ and _____.
3. Burning and breathing both give out _____.
4. The amount of water vapour in the air is called _____.

Write True or False:-

1. The air we breathe out is called exhaled or expired air.
2. Argon is used in electric lights.
3. Air do not exert pressure.
4. Separation of insoluble impurities with the help of a filter paper is called filtration.
5. Water is known as the universal solvent.

Complete the following exercise at the end of the chapter:-

Exercise A, B, C, D and E on Page 64

- II. Draw the following diagrams on Page 57, 62 and 63 :-

- A. Composition of Air
- B. Evaporation
- C. Distillation
- D. Decantation
- E. Filtration

Please refer to the links below:- 

<https://youtu.be/I3JtnoCnQ7w>

<https://youtu.be/R8uFBiOn8Ec>

<https://youtu.be/Ku2tJQyokAE>

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