



STEPPING STONE
SCHOOL (HIGH)

Class - 4

Subject – Science

Topic - **Air**

Time : 45 minutes

Worksheet No. - 22

Air pollution :-

Air pollution is the presence of harmful and poisonous substances in the air. Smoke from factories, vehicles, burning waste, etc, germs and dust particles cause air pollution. All these substances that cause air pollution are called air pollutants.

Sources of Air pollution :-

Some common sources of air pollution are :-

Automobiles :- The smoke emitted by vehicles contains carbon monoxide, a very harmful gas.

Industries :- The smoke coming from factories and industries is a major source of air pollution.

Burning waste :- The burning of waste and other objects in the open is major contributor of air pollution .

Domestic practices :- Burning coal, cow dung cakes, etc., for various domestic uses causes air pollution.

Deforestation :- The cutting of trees on large scale is called deforestation. It leads to imbalance in the air. This also results in pollution.

Natural disasters :- Volcanic eruptions and forest fires also cause air pollution.

Germs :- Germs are small organisms that cause diseases. They are also present in the air. They are so small that we cannot see them. These germs enter our body when we breathe in and can make us ill. Germs enter the air from open garbage dumps. They also enter the air when someone coughs or sneezes without covering their mouth.

Diseases caused by germs which spread from one person to another are called **communicable diseases** or **infectious diseases**. Communicable diseases that spread through air are called airborne diseases. For example, tuberculosis or TB, chicken pox and common cold.

Dust particles :- Air contains dust particles too. The dust particles are very small and are not easily visible. To see the dust particles, close the windows and doors of a room and pull the curtains. Now pull aside the curtain slightly and let sunlight enter the room through the gap. You will see tiny dust particles moving in the air.

Prevention of Air - Pollution :-

- Environment -friendly fuels, also called clean fuels, like compressed natural gas (CNG) should be used.
- For domestic purposes, liquified petroleum gas (LPG) should be used instead of wood and coal.
- Industrial chimneys should be fitted with gas filters.
- Vehicles should be maintained regularly so that they do not release harmful gases.
- Fresh air and sunlight should be allowed into the house. Clothes and mattresses should be aired and put in the sun.

Learn the key terms in page number 87

Tap on the underlined blue sentence below to listen the audio content :-

Sources of air pollution

Prevention of air pollution

Now let us try to solve the exercises:-

A. **Tick the correct answer :-**

1. Which of the following is not an air pollutant?

Ans . **Oxygen**.

2. Instead of wood and coal as domestic fuel, which of these should be used?

Ans. **LPG**

3. Which gas is equally essential for both plants and animals, but cannot be used directly?

Ans. **Nitrogen**.

4. Which of the following is not present in the air?

Ans. **Leaves**

5. Which of the following will not make the air dirty?

Ans. **Planting trees**.

B. **Fill in the blanks :-**

1. The toxic and harmful substances that pollute the air are called **pollutants**.

2. For domestic purposes, **LPG** should be used instead of wood and coal.

3. **Oxygen** gas is necessary for burning.

4. Air is matter because it occupies **space** and has **mass**.

5. **Carbon dioxide** gas is used by plants to make their food.