



Air

We'll cover the following key points:

- Water does Air Contain?
- Air Pollution
- Moving Air and Wind Vane



Hi, I'm EeeBee

Do you Remember:

Fundamental concept in previous class.

In class 1.. we learnt

- Air and Its's Properties
- Uses of Air

Still curious?

Talk to me by scanning the QR code.



Learning Outcomes

By the end of this chapter, students will be able to:

- Understand that air is all around us and we cannot see it.
- Learn that air helps us breathe and stay alive.
- Know that air moves, and we can feel it as wind.
- Understand that plants need air to live and grow.



Let's Start

Effects of air pollution.



EVS-2



Air is everywhere. But we cannot see it as it has no colour. Air is useful to us in many ways. We need air to live. Plants and animals too need air to live.

WHAT DOES AIR CONTAIN ?

Air contains gases, vapour and many small parcels of dust and ash. They are so small that they cannot be seen by our naked eyes.

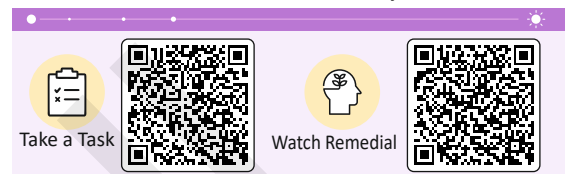
Air contains many **gases**. Like oxygen, nitrogen and carbon dioxide etc.

Oxygen gas is necessary to live. Some gases like carbon dioxide, etc. are poisonous.

Air contains **water vapour**.

When water boils, it turns into vapour. It mixes with air.

When wet clothes dry under the sun, water goes into air as water vapour.



Water vapour due to boiling water



Clothes drying under the sun

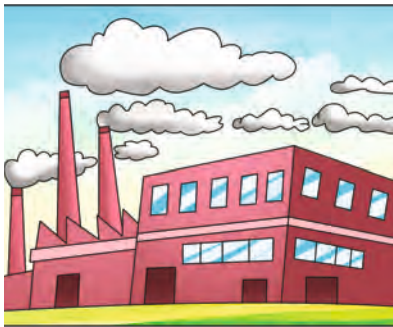


Let's Do

On a sunny day, find a window which has sunlight coming through a small gap. Look carefully at the rays of the sunlight. You will see small parcels of dust.



Smoke come out of factories and vehicles. It is also caused by burning of something or cooking. Dust keeps flying and geng into the air while sweeping.



Smoke from the factory



Smoke from the vehicles



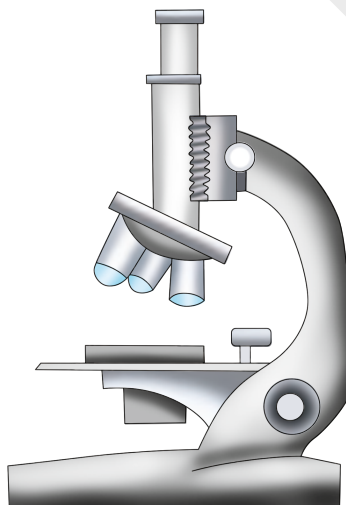
Flying of dust



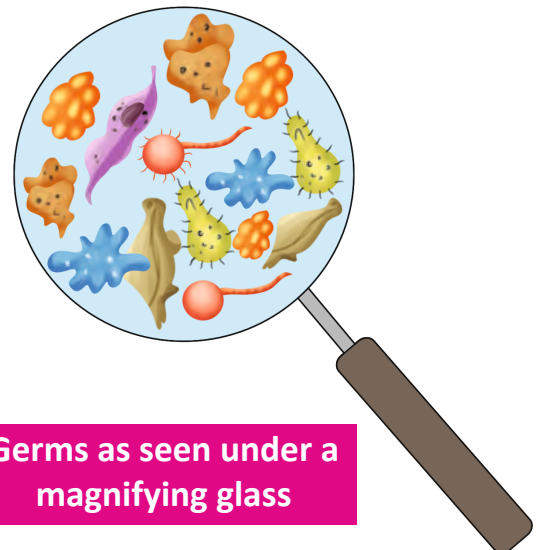
Smoke due to burning

The dust and smoke in the air makes it dirty. It is called **pollution**. Polluon is very harmful for us.

- Air contains millions of **germs**. Germs are very small. We can see them only under a **microscope** or under a **magnifying** glass. Germs can cause us become ill.



Microscope device



Germs as seen under a magnifying glass



MOVING AIR

Moving air is called **wind**.

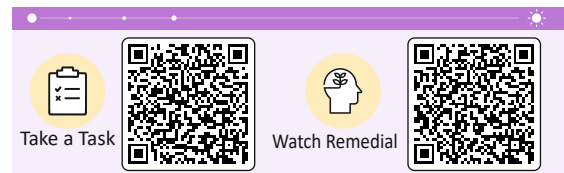
A light wind is called **breeze**.

A strong wind is called **gale**.

Very strong winds are called **storms**.

Storms can uproot trees and can cause a great damage.

Winds have different speeds and directions. We can find out the direction of the wind with the help of a wind vane.



Wind



Wind Vane



Let's Do

Make a wind vane.

Take a twig (a soft piece of wood like stem of a plant).

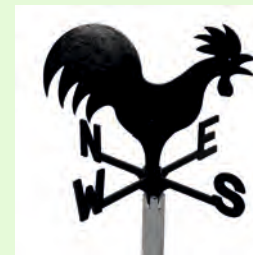
Take a piece of paper and make an arrow with it.



Twig



Paper Arrow



Wind Vane

Fix the arrow on the twig with a pin in such a way that it moves freely. Your **Wind Vane** is ready. It will tell you the direction in which the wind is blowing.



Word Treasure

- **Smoke** : Gas given off due to burning.
- **Ash** : Particles given off by burning things.
- **Pollution** : Dirty.
- **Microscope** : A device that helps to see things which cannot be seen with a naked eye.
- **Uproot** : Pulled out of the soil.



- We need air to live. Air is made of gases, vapour, smoke, dust and ash etc.
- Moving air is called wind. It is also called breeze, gale or storm.

Clean and Green Exercises



Gap Analyzer..
Take a Test

A. Fill in the blanks. Take help from the box:

Storm wind vane Smoke Microscope water vapour

1. is emitted by chimneys of factories.
2. We can see germs only under a
3. When we boil water, is formed.
4. Very strong wind is called
5. Direction of wind can be measured with the help of a

B. Answer the following questions:

1. What does air contain?

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2. Where does smoke come from?

.....

3. Which gas is necessary and which gases are harmful for us?

.....

4. What is wind?

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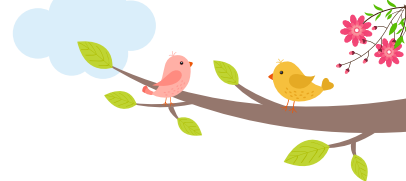


5. What is gale?

C. Find five things from the word search which air contains:

W	A	T	E	R	V	A	P	O	U	R
L	X	B	V	E	H	L	R	N	P	Q
M	R	D	U	S	T	K	Q	T	Y	G
C	W	D	C	O	G	S	Y	S	B	A
P	O	L	L	U	T	I	O	N	O	S
Z	P	W	F	Q	W	I	T	J	M	E
O	H	U	R	V	X	L	M	U	O	S
S	M	O	K	E	Z	A	W	N	T	A

D. Collect at least five pictures of things which cause air pollution. Paste them here.



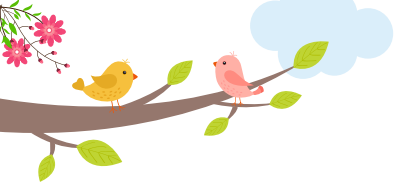
Here are some steps that make air dirty. What will you do to keep it clean? Write in the next column. You can ask your teacher also. One is done for you.

Making air dirty	Part of the plant
Cutting trees	Planting more trees
Burning wood, etc.	
Using petrol and diesel	
Burning wastes in field	



If you feel at some place that air is dirty there, what will you do?





Wonder Explorers



What is Wind?

STEM

Air in motion is called wind. Let's learn how it moves and how we can measure its direction.

Activity: Make a Wind Vane

1. **Task:** Take cardboard, a pencil, a straw, and paper to create a wind vane.
2. **Steps:** Cut an arrow shape from the paper.
Attach it to the straw.
Fix the straw on a pencil stuck in a clay base.
Place it outside to observe wind direction.
3. **Activity:** Discuss how wind helps in daily life (e.g., flying kites, turning windmills).

Learning

Learn how moving air (wind) is measured and its importance in weather prediction.

Skills Covered: Observation, Creativity, Communication

Little Techies

Artificial Intelligence

Ask an AI device like Alexa or Siri:

1. What is air pollution?
2. How can we reduce air pollution in our daily lives?

Skills Covered: Logical thinking, Digital literacy, Curiosity

Colors and Creations

Art

Draw pictures showing uses of clean air (e.g., plants growing, people playing outdoors) and polluted air (e.g., factories releasing smoke). Use colors to make your drawing lively and present it to the class.

Skills Covered: Creativity, Expression, Collaboration

Language Links

Learn and write the word for "air" in your mother tongue and one other language. Discuss how people in different regions view air as a natural resource.

Skills Covered: Language awareness, Social skills