

Chapter 16 : Air - The Gift Of Nature

Curricular Goal :

CG1: Explores the world of matter and its constituents, properties and behaviour.

Competencies :

C-1.4: Observes and explains the phenomena caused due to differences in pressure, temperature, and density (e.g breathing, formation of wind).

Learning Outcomes :

1. Name the different components of air
2. Explain that most living beings need oxygen for survival.
3. Describe the process of formation of wind

STORY 16: AIR - THE GIFT OF NATURE

Early morning, Tomthin and his grandfather do breathing exercises.



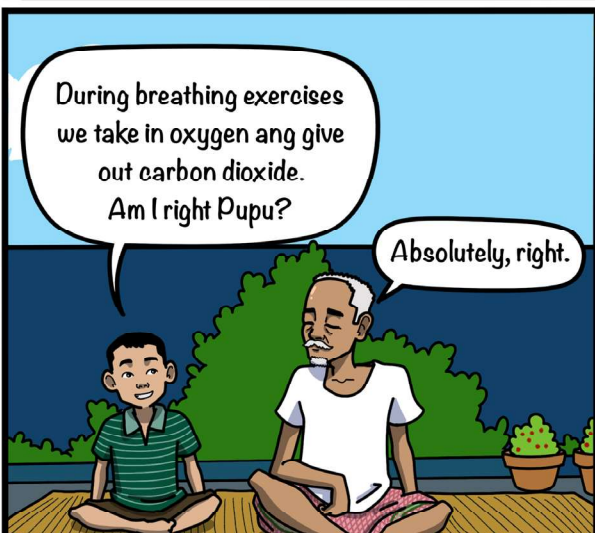
What is the benefit of breathing exercises?

It helps in getting more fresh air in the lungs to stay healthy.



During breathing exercises we take in oxygen and give out carbon dioxide. Am I right Pupu?

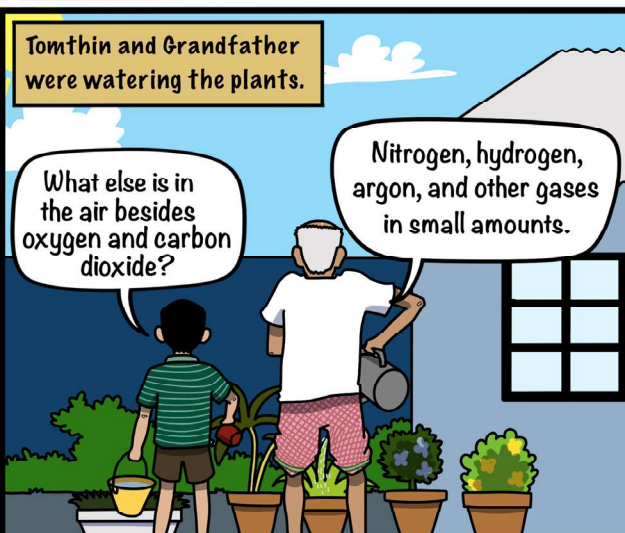
Absolutely, right.



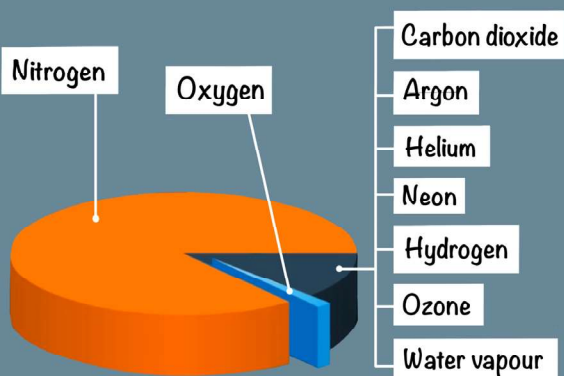
Tomthin and Grandfather were watering the plants.

What else is in the air besides oxygen and carbon dioxide?

Nitrogen, hydrogen, argon, and other gases in small amounts.



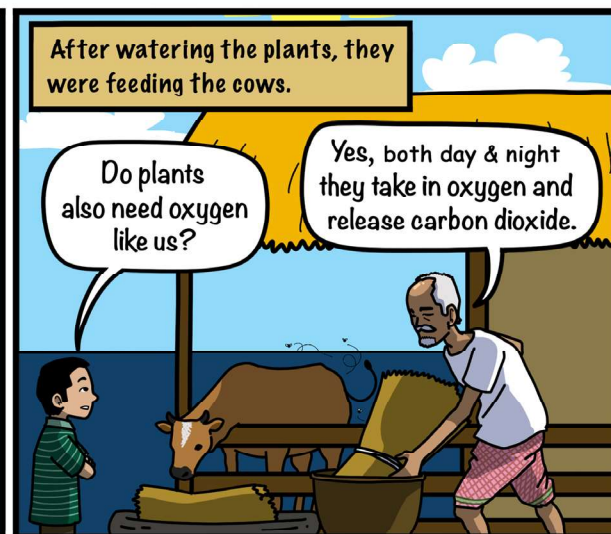
Composition of air



After watering the plants, they were feeding the cows.

Do plants also need oxygen like us?

Yes, both day & night they take in oxygen and release carbon dioxide.

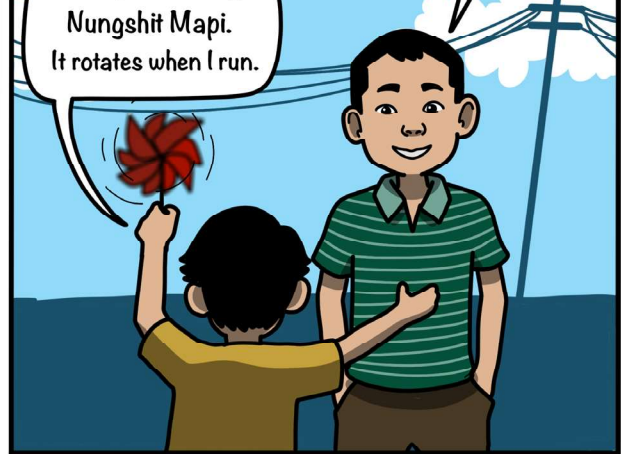


Tomthin's younger brother with a pinwheel (Nungshit Mapi).



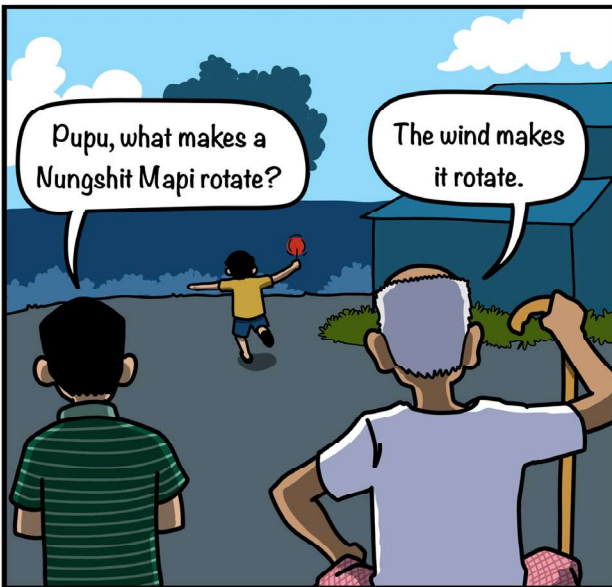
Tamo, look at my Nungshit Mapi. It rotates when I run.

Enjoy it, Nanao.



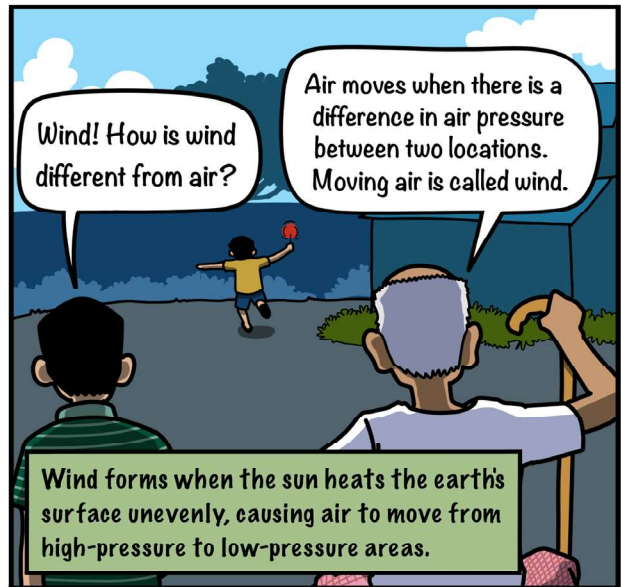
Pupu, what makes a Nungshit Mapi rotate?

The wind makes it rotate.



Wind! How is wind different from air?

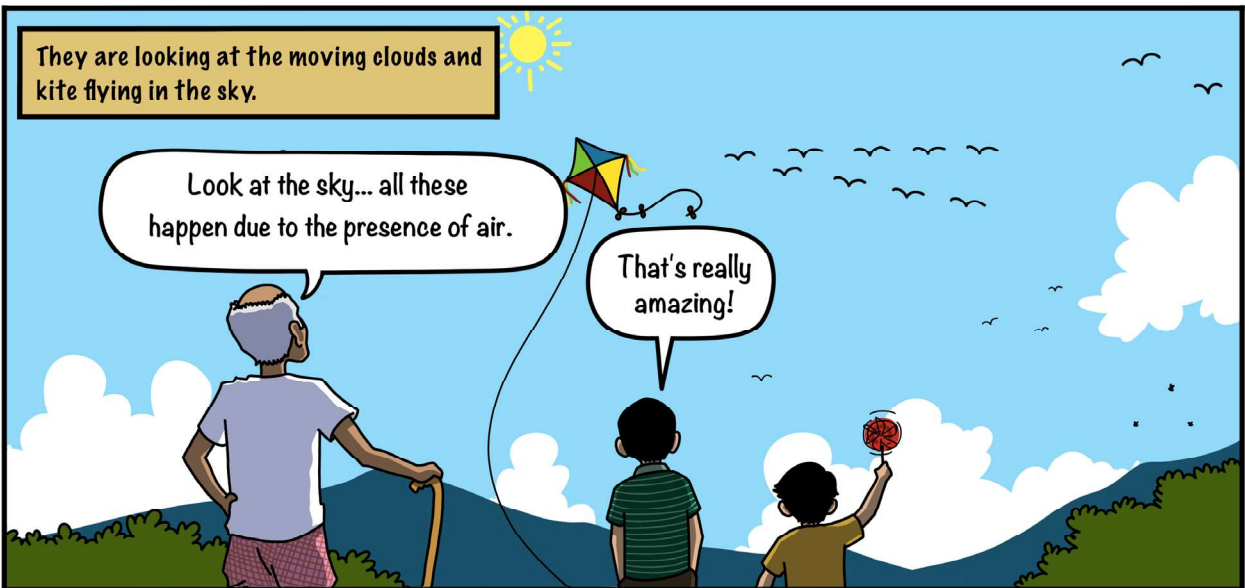
Air moves when there is a difference in air pressure between two locations. Moving air is called wind.



They are looking at the moving clouds and kite flying in the sky.

Look at the sky... all these happen due to the presence of air.

That's really amazing!



Activity

Do this at home

Follow the steps and make a Nungshit Mapi/Pinwheel

1. Take a square paper of desired size.
2. Make a circle in the centre.
3. Draw lines on the surface of the circle and cut it
4. Fold one end on to the other, fold it up continuously to make sure all the sides are well folded up.
5. Attach a stick and pin up the paper fold so that it does not open