

SUBJECT: SCIENCE
TOPIC: AIR AROUND US

LESSON PLAN

Pre-content/Content/ Post-content	Learning Outcome/Objectives	
Pre-content: Interactive discussion and brainstorming session will be held regarding air as they know that air cannot be seen but one can feel its presence. Content: ➤ Presence of air and the various components present in air ➤ Presence of air(oxygen) in soil and water ➤ Interdependence of plants and animals Post-content: The students will be able to discuss the various uses of air.	General Students will be able to • recall the importance of air • identify the various components present in air • appreciate the importance of the various components • appreciate how the oxygen becomes available to plants and animals living in water and soil. • identify and appreciate the two vital processes- respiration and photosynthesis • discuss the use of air in seed dispersal, pollination and its role in water cycle	Specific Students will be able to • apply the knowledge of importance of air in daily life. • enumerate the various components of air • comprehend the reasons for variations in the composition of air from place to place • sensitized that plants and animals living in both air and water needs oxygen to respire. • relate that plants produce oxygen and animals cannot live without plants • appreciate the importance of air for life on earth

Home Work/Assignments

1. Work exercises from the Science Textbook
2. Practise assignments from assignment booklet

Teacher's Activity	Student's Activity	Teacher's Observation and Remedial
Teacher will <u>ANNEXURE 15A</u> participate in the brainstorming session and understand that air is present everywhere around us. conduct activities to show the various components of air present in it. conduct an activity which shows that soil contains air. ask questions from students about the interdependence of plants and animals and explain the process of respiration and photosynthesis discuss various uses of air and ask students to present their ideas on paper by drawing to not to pollute this air.	Students will <u>ANNEXURE15a</u> demonstrate an activity to show its presence everywhere observe the activities which shows the presence of oxygen in air. perform the activity to prove that dry soil contains air and note down their observations. share their views on the same. draw a poster on “ stop air pollution”	

Teaching Aids- Active Inspire boards, ICR, Materials required for activities, worksheets

Methodology/Innovative Methods: Activity based teaching, Know to Unknown, Discussions

Interdisciplinary Links –

- **English** – It will improve the power of expression while explaining the activity and also vocabulary.
- **Value based link**-Appreciate the role of air in our daily life .

HOD

COORDINATOR

HEADMISTRESS

PRINCIPAL

ANNEXURE 15 A & a
AIR , AIR EVERYWHERE !

Subject	Science
Class	VI
Chapter/Unit	Air around us
Topic	Air occupies space
Time	40 mins
Nature of Activity	Individual/Group

What will I learn ?(Learning Outcome):

To explore that air is present everywhere . Air is a mixture of many gases and it occupies space.

Skills :

Analyzing,Applying, Evaluating

What I have to do ?

To show air occupies space.

What do I require ?

A container ,an empty bottle , water

What do I need toknow ?

Air is a mixture of gases. An "empty" glass is never truly empty. It's filled with air - and ***air takes up space.***

Teacher's Activity: Teacher will

- (1) explain that air occupies space through experiment.
- (2) ask students to take an empty open bottle for the activity and further ask them that is it really empty or does it have something inside?
- (3) turn it, upside down.
- (4) again ask them whether something is inside it now?

How will I proceed ?

Students Activity :Students will

- (1) Now, dip the open mouth of the bottle into the bucket filled with water.
- (2) Now tilt the bottle slightly.

What have I observed :

S.No	Case	Yes / No
1.	Does the water enter the bottle before tilting?	
2.	Does the water now enter the bottle after tilting ?	
3	Do you see bubbles coming out of the bottle or hear any bubbly sound?	

What have I learnt ?

When the bottle was tilted, the air was able to come out in the form of bubbles, and water filled up the empty space that the air has occupied.

This activity shows that air occupies _____ It fills all the space in the bottle. It is present everywhere around us.

What am I curious to learn?

Let us find out whether air is present in water? How ?

Let me evaluate myself

Q1.What are the constituents of air ?

Q2.What is the composition of nitrogen and oxygen in air ?

Q3.Why does a lump of cotton wool shrinks in water ?

Q4.How will you prove that air is present in soil ?

Q5.List the activities that are possible due to presence of air.