

IDENTIFICATION OF DATA:-

School:
Class:
No. of Students:
Average Age:
Time: 40 minutes

Subject: Science
Topic: Air Pollution
Textbook: Science, NCERT
Teacher's Name:
Date:

GENERAL OBJECTIVES :- As stated in lesson plan - 1.

TEACHING POINT :-
1) Definition of pollution.
2) Definition of Air pollution.
3) Causes of Air pollution.
4) Effect of Air pollution.

SPECIFIC OBJECTIVE :-

KNOWLEDGE :-
1) The students will able to define pollution.
2) The students will able to define Air pollution.
3) The students will able to write about Air pollution.
4) The students will able to list of the causes of air pollution.

UNDERSTANDING :-
1) The students will able to explain how air get polluted.
2) The students will able to identify the effect of air pollution on human health.

APPLICATION :-
1) The students will able to analyse how air pollution affect our day to day life survival.

TEACHING AIDS :-

- A) GENERAL TEACHING AIDS :- Chalks, Duster, Blackboard, pointer.
 B) SPECIFIC TEACHING AIDS :- A chart.

INTRODUCTION :-

STEPS	TEACHING POINT	TEACHER'S ACTIVITY	PUPIL'S ACTIVITY	MICRO-TEACHING SKILL
I		The teacher will enter the classroom in a pleasant mood and greet the students. If necessary teacher will arrange the classroom properly.	The pupils will greet the teacher too.	preliminary attention gaining.
N		Now to motivate the students and in order to test their previous knowledge He/she will ask the following question.	The pupils will try to give the answers -	
T		1) What do we get from trees ?	Get fresh oxygen.	
R		2) What would happen if we cut down all the tree ?	Increases temperature in the atmosphere.	
O		3) Why is temperature important to the environment ?	It changes the lifestyle of living and non-living organism.	
D		4) Which gas is responsible for increasing temperature in the atmosphere ?	Carbon dioxide and methane.	
U		After getting satisfactory answer from the students teacher will announce the topic and write it on the top of the blackboard as " <u>Air pollution</u> ", and he/she will ask the pupils to note it down.	The pupils will note down the topic on their notebook.	
C	Announcement of the topic			Blackboard writing.
T				
I				
O				
N				

PRESENTATION 8-

STEPS	TEACHING POINT	TEACHER'S ACTIVITY	PUPIL'S ACTIVITY	LEARNING OUTCOME	MTS
P	<u>Definition of pollution.</u>	The teacher will write the definition of pollution and discuss how it can be called polluted. - "The contamination of the environment by unwanted substances is called pollution."	The pupil's will listen attentively to the teacher and write the definition of pollution on their notebook.	knowledge	Blackboard
R					
E					
S	<u>Definition of Air pollution.</u>	The teacher will explain the definition of air pollution. "When air contaminated by unwanted substances which have a harmful effect on both living and non-living things is called Air pollution."	The pupil's will write the definition of air pollution on their notebook.	knowledge	Blackboard
E					
N					
T	<u>Causes of Air pollution.</u>	The teacher will discuss the causes of Air-pollution with the help of a chart. The air pollution mainly causes by two different ways -	The pupil's will understand the causes of Air-pollution.	understanding.	Demonstration
A					
T					
I					
O					
N					

STEPS	TEACHING POINT	TEACHER'S ACTIVITY	PUPIL'S ACTIVITY	LEARNING OUTCOME	MTS
P R E S E N T A P T I O N		<p>a) <u>Dust storms</u> - (Add dust particles to the air).</p> <p>b) <u>Forest fires</u> - (Add carbon dioxide, carbon monoxide, Nitrogen oxide and Sulphur dioxide).</p> <p>c) <u>Volcanic Eruption</u> - (Add huge amount of Sulphur dioxide).</p> <p>d) <u>Man-made sources</u> -</p> <p>a) <u>Industry and vehicles</u> - (Add CO_2, CO, SO_2 and NO).</p> <p>b) <u>Thermal power plant</u> - (Add 90% of SO_2) and Burning plastics and rubber releases pol- -onous fumes , Decomposing garbage in landfills and solid waste disposal emits methane gas.</p>	The pupils will listen attentively to the teacher and write the causes of air pollution on their notebook.	Explaining	

STEPS	TEACHING POINT	TEACHER'S ACTIVITY	PUPIL'S ACTIVITY	LEARNING OUTCOMES	MTS
P	Effects of Air pollution	The teacher will discuss elaborately the effect of air pollution -	Pupil's will listen attentively and note it down on their notebook.		
R		The effects of air pollution on the human very badly depending on the type of pollutant and the length and level of exposure.			Explaining
E					
S		It causes respiratory problem. → Carbon monoxide produces by the incomplete combustion of diesel quickly binds to the red blood cell and prevent oxygen from binding to them it causes death.			
E		→ CFCs damage ozone layer and causing skin cancer and damage the eyes.			Understanding
N		→ Air pollution affects normal functioning of plants.			Stimulus variation
T		→ Air pollution causes acid rain - (pollutant like - Sulphur dioxide and nitrogen dioxide and react with the water vapour present in the atmosphere to form Sulphuric acid and nitric acid. The acid drop down with rain making the rain acidic).			
A					
T					
I					
O					
N					

STEPS	TEACHING POINT	TEACHER'S ACTIVITY	PUPIL'S ACTIVITY	LEARNING OUTCOME	MTS
P R E S E N T A T I O N		<p>⇒ It causes global warming (Increases amount of CO₂ in the air).</p> <p>⇒ Air pollution causes the green-house effect. - (Excess of CO₂ in the air and trapping of radiations by the earth's atmosphere)</p>	The pupils will listen attentively to the teacher.	understanding.	Explaining

CLOSURE :-

STEPS	TEACHER'S ACTIVITY	PUPIL'S ACTIVITY	LEARNING OUTCOME	MTS
C L O S U R E	<p>After completing the class teacher will consolidate the class by once-merading specific point again and to test acquired knowledge . He/she will ask following questions.</p> <p>↳ what is Air pollution ?</p>	<p>The pupils will try to give the answer.</p> <p>↳ When air is contaminated by unwanted substances which have a harmful effect on both living and non-living thing is called Air pollution.</p>	knowledge	Questioning

STEPS	TEACHER'S ACTIVITY	PUPIL'S ACTIVITY	LEARNING OUT-COME	MTS
C	2) which gas is responsible for greenhouse effect?	pupil's will be expected to give answer.	understanding.	
L	3) what are the diseases caused by air pollution?	⇒ Heart diseases, cancer.	Question -ing.	
O	After getting the answer he/she will assign following homework and write on blackboard.	The pupil's will note down on their notebook.	Reinforcement	Black board.
S	<u>Home Assignment-</u>		Application.	
U	→ How air pollution can directly affect people's health and the environment? Analyse. → 5			
R	2) how to prevent air pollution? Explain. → 5		understanding.	
E	Then the teacher will say Today we will learn about 'air pollution'. In our next class we will discuss about water pollution. Then the teacher will thank the students for their responses and say good bye.	The pupil's will thanks the teacher too.	Achieving closure (cognitive link).	