3. AIR WE BREATHE

	J. ALK WE DREATHE		
Class: IV			
Subject: Science			
I. Choose the correct of	answer.		
1. Air is a			
(a) Mixture	(b) Compound	(c) Complex	
2. Percentage of Oxygen in air is about%.			
(a) 21	(b) 78	(c) 1	
Root nodules of some plants contain			
(a) Oxygen	(b) Nitrogen	(c) Neon	
4. The major cause of air pollution is			
(a) Waste	(b) Smoke	(c) Water vapour	
II. Who am I?			
1. I am a mixture of gase	25.	Air	
2. I give you oxygen.		Plants	
3. I am not the supporter of burning.		Nitrogen	
4. You can help me to decrease pollution by riding on me. Bicycle			
III. Write 'True' or 'Fo	alse'.		
1. Plants need nitrogen f	True		
2. Air is made up of oxygen only. False			
3. The gas used for burning things is Argon. False			
4. Carbonated drinks are bad to health. True			
IV. Math the following			
1. Nitrogen - 78	3% OSAVA DAT		
2. Balloon – Ai	r two		
2. Balloon - Air 3. Smog - Smoke and fog GEISPO			
4. Lung cancer – Ai	r pollution		
V. Fill in the blanks.			
1. Air is a mixture of ma	ny <u>Gases</u> .		
2. Amount of carbon dio	xide in the air is <u>0.03</u> %.		
3. We inhale <u>Oxygen g</u> as	5.		
4. <u>Carbon-di-oxide</u> is u	sed in fire extinguishers		
VT Anewer the following	e questions in buick		
VI. Answer the followin	•••		
1. What is the importance of air in our daily life?			
	in air is needed for respiration.		
2. we can speak an	d hear the sound only when ther	e is air around.	

3. Air helps in the dispersal of seeds for plant reproduction.

- 4. Monsoon and rain occurs due to the wind action.
- 5. Air regulates the atmospheric temperature.

2. What are the components of air?

Components of air

- Nitrogen
- Argon
- Carbon dioxide
- Other gases

3. What are the adverse effects of air pollution?

- Global warming
- Formation of smog
- Formation of acid rain
- Aerosol formation
- Depletion of ozone

4. List uses of oxygen.

- 1. All living things use oxygen for breathing.
- 2. Oxygen is essential for burning.
- 3. Oxygen cylinders are used in hospitals to enable the patients to
- breathe when they cannot breathe normally.
 - 4. Oxygen is used in gas welding.

VII. Give short answers.

1. How can we reduce air pollution?

Air pollution can be reduced by the following steps.

- 1. Alternative source of energy (E.g. Solar energy) should be used.
- 2. Air filters should be used to prevent harmful gases mixing with air.
- 3. Smoke emission test and certification of motor vehicles must be enforced.
- 4. More trees should be planted to absorb carbon dioxide.

2. What are the diseases caused due to air pollution?

Air pollution has bad impact on human health. When the pollutants increase in air, they cause irritation in the eyes, nose and throat. Air pollution can also produce wheezing, coughing and breathing problems in humans. Some of the major effects of air pollution on human beings are:

1. Respiratory diseases. E.g. Flu, Tuberculosis

- 2. Cardiovascular damage.
- 3. Fatigue, headaches and anxiety.
- 4. Nervous system damage

3. List out the uses of carbon dioxide.

- 1. Carbon dioxide helps plants in photosynthesis.
- 2. It is used in fire extinguishers.
- 3. It is used in refrigerators as dry ice for cooling purposes.
- 4. It is used to make plastics and polymers.

TEXT BOOK ACTIVITES

ACTIVITY :1 (pg no: 88)

1. Take a squeezable bottle. Make a hole on the lid and close the bottle tightly. Bring the bottle near your face and press the bottle. What do you feel?

Air will come rushing out of the bottle.

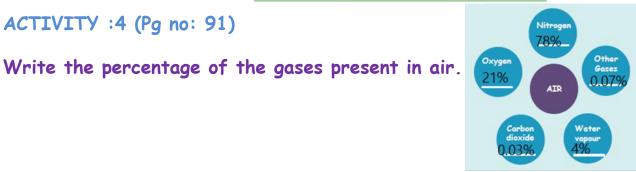
ACTIVITY :2 (pg no : 89)



ACTIVITY :3 (Pg no : 90)

ACTIVITY :4 (Pg no: 91)





ACTIVITY :5 (Pg no: 91)

1. You might have seen some huge colorful balloons flying high in malls. Those balloons are filled with nitrogen gas. Write the reason for filling nitrogen gas in balloons.

The amount of nitrogen present in air is about 78% so it will float upwards and it is also non-flammable gas.

ACTIVITY :6 (Pg no: 93)

1. Classify the following.

(Dog, cat, coconut tree, monkey, brinjal plant, papaya plant)

Things which give	Things which give
out oxygen	out carbon dioxide
Brinjal plant 👘	Dog
Papaya plant	Cat
Coconut tree	Monkey

ACTIVITY :7 (Pg no: 95)

Tick the causes of global warming.



ACTIVITY :8 (Pg no: 96)

1. Write slogans on harmful effects of air pollution in a chart and stick it on the display board.



- 1. Don't be mean, Keep air clean
- 2. Spread solution, not Pollution
- 3. Give Trees a lot of care, so you can breath fresh air
- 4. Say loudly 'No' to air pollution.