

## Unit - 3. Air

Class: III

Subject: Science

### I. Fill in the blanks using the given words.

1. Air has Weight.
2. Things need Air for burning.
3. The process by which we breathe in air is known as Inhale.
4. The organ that helps us to breathe is Lungs.
5. When we breathe in air, the chest Rasies up.

### II. Write 'T' if True and 'F' if False.

- |  |       |
|--|-------|
| 1. Air is nowhere.                             | False |
| 2. Air fills the empty space.                  | True  |
| 3. Clouds move because of the movement of air. | True  |
| 4. A very strong wind is called gale.          | True  |
| 5. We release oxygen during breathing.         | False |

### III. Underline the odd one.

1. Balloon, Cycle tube, Football, Cricket ball.
2. Kite, Balloon, Stone, Feather.

### IV. Answer the following.

#### 1. What are the properties of air?

- ❖ Air is a natural resource.
- ❖ We cannot live without it.
- ❖ It is present around us.
- ❖ It has no definite shape and colour.
- ❖ Air has weight and it occupies space.
- ❖ We cannot see air but it can be felt.
- ❖ Air can flow everywhere.

#### 2. Write the use of windmill.

Electricity is generated from wind with the help of the Windmills.

#### 3. What is breathing?

This cyclical process of inhalation and exhalation is called breathing.

#### 4. Write the processes involved in breathing.

Inhalation is the process of taking the air inside and exhalation is the process of releasing the air outside.

#### 5. Write the types of wind based on the speed of air.

Based on the speed of air, wind can be classified as breeze, storm and gale.

#### 6. Differentiate between land breeze and sea breeze.

##### Land breeze:

- ❖ The breeze that blows from the land towards the sea during night time is known as land breeze.
- ❖ The warm air from the sea rises up, and so the cold air from the land moves towards the sea.

##### Sea breeze:

- ❖ The breeze that blows from the sea towards the land during day time is known as sea breeze.
- ❖ As the warm air from the land rises up and the cold air from the sea occupies the space over the land.

#### Book Inside

##### I. Try to Answer

1. If we fill air in the -----, it will change its shape.

1. jar                      2. jug                      3. ball

2. Which of the following is required for good health?

1. Dust                      2. Clean air                      3. Smoke

##### II. Fill in the blanks

1. Gentle air is called Breeze.

2. We get electricity from wind using Wind Mills.

3. The air that flows from the land towards the sea is Land Breeze.

4. Sea breeze is the air moving from Sea towards Land.

5. I Will Not watch TV when it rains heavily.

6. I Will follow the warnings.

7. I Will Not stand under a tree when heavy wind blows.

8. Which activity raised the breathing rate the most? Running

9. Which activity do you think exercises the heart muscle the least? Sitting.

**III. Write true or false for the following statements:**

- |  |        |
|--|--------|
| 1. Air occupies space but has no weight .                                      | False. |
| 2. Air is colourless.  | True.  |
| 3. Air has definite shape.   | False  |
| 4. They breathed more number of times when they were walking.                  | False  |
| 5. They breathed less number of times when they were sitting.                  | True   |
| 6. They took 50 breaths per minute when they were running.                     | True   |
| 7. The more vigorous (active) the exercise, the greater the number of breaths. | True.  |

**IV. Match the following**

- |           |   |                  |
|-----------|---|------------------|
| a. Breeze | - | Gentle wind      |
| b. Storm  | - | Strong Wind      |
| c. Gale   | - | Very strong wind |

**V. Answer the following**

- Keep your finger near your nose and breathe. Do you feel air on your fingers?  
**Yes**
- Try to count how many times you breathe in a minute. **12- 20 times**
- Now jump 6-7 times. Is your breathing rate the same or is it faster? **Faster**
- Run 100 meters and stop. Observe your breathing.  
**Breathing rate is it faster.**

**VI. Choose and write the correct answer for the following actions.**

S.No	Actions	Inhalation / Exhalation
1	Air moves out of the lungs	Exhalation
2	Air goes into the lungs	Inhalation
3	Chest raises up	Inhalation
4	Chest lowers down	Exhalation

**VII. Tick (✓) the one which breathes and cross (X) the one that does not breathe.**



V. Draw the movement of air for land breeze and sea breeze

