

Gas

A. Choose the Correct Answer:

1. What is the form of matter that spreads out and fills any container?

- a) Solid
- b) Liquid
- c) Gas
- d) Ice

2. Which of the following is an example of gas?

- a) Water
- b) Air
- c) Rock
- d) Sand

3. What is the main gas we need to breathe to stay alive?

- a) Oxygen
- b) Carbon dioxide
- c) Nitrogen
- d) Helium

B. Fill in the Blanks:

1. The air we breathe is a mixture of different _____.
2. Gases have no fixed _____ or _____.
3. Balloons float when filled with _____ gas.

C. Case Study:

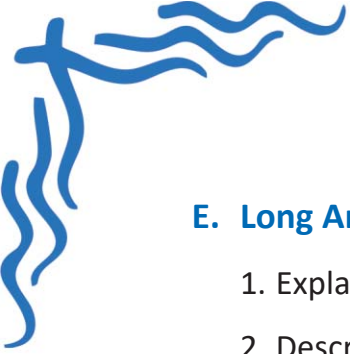
Riya and her friends were playing with balloons at a birthday party. They noticed that some balloons floated in the air, while others stayed on the ground. Riya's father explained that the floating balloons were filled with helium gas, which is lighter than air. The balloons on the ground were filled with normal air.

Case Study Questions:

1. Why did some balloons float while others stayed on the ground?
2. What property of helium makes the balloons float?
3. How is the gas in the floating balloons different from the gas in the air around them?
4. Why do balloons filled with air eventually fall to the ground?

D. Short Answer Questions:

1. What are the three states of matter?
2. Why do gases spread out in all directions?
3. Name two gases that are important for plants and animals.



E. Long Answer Questions:

1. Explain how gases are different from solids and liquids.
2. Describe the importance of air and how it helps living beings.
3. What are some uses of gases in our daily life?