



**I. Fill in the blanks.**

1. Meteors do not hit the Earth's surface because of the layer \_\_\_\_\_.
2. Water cycle occurs in \_\_\_\_\_ layer.
3. \_\_\_\_\_ gas is used in light bulbs and fluorescent tubes.
4. The ozone layer is a part of \_\_\_\_\_.
5. There are \_\_\_\_\_ layers of atmosphere.
6. \_\_\_\_\_ layer protects us from harmful UV rays of the sun.
7. Most abundant gas in the atmosphere is \_\_\_\_\_.
8. \_\_\_\_\_ is a thick blanket of air.
9. The outermost layer of the atmosphere is \_\_\_\_\_.
10. Inflated balloon shows us that air occupies \_\_\_\_\_.
11. Presence of \_\_\_\_\_ and \_\_\_\_\_ makes life possible on Earth.
12. Atmosphere keeps our planet \_\_\_\_\_.

**II. Write true (t) or false (f).**

1. Air has weight and occupies space. (     )
2. Air is the liquid state of matter. (     )
3. All living things inhale carbon dioxide. (     )
4. Nitrogen in the air controls burning. (     )
5. Argon is a colorless gas used in making light bulbs. (     )
6. Drinking through a straw would not be possible without air. (     )
7. Fire burns due to the presence of carbon di oxide in the air. (     )
8. Air is a mixture of fuels. (     )

**III. Match the following.**

- |                    |                              |
|--------------------|------------------------------|
| 1. Nitrogen        | mixture of many gases        |
| 2. Oxygen          | most abundant gas in the air |
| 3. Carbon di oxide | survival of human beings     |
| 4. Argon           | Photosynthesis.              |
| 5. Air             | Used in light bulbs.         |

**IV. Answer these short answer questions.**

1. Why is the ozone layer important for us?
2. What is atmosphere?
3. What are the properties of air?
4. Why is our planet Earth special?
5. Name some gases present in the air
6. How can we prevent the depletion of ozone layer?

**V. Answer these long answer questions.**

1. Explain the composition of air and importance of each gas.
2. Describe the layers of atmosphere with the the help of a neat labelled diagram.

3. Ashley's dad keeps telling her to minimize the use of air conditioners, as it can damage the ozone layer. But she is confused about what is ozone layer and how it is of any importance to us. Can you help her by answering her questions as follows:

- Where is the ozone layer present?
- What causes the damage of ozone layer?
- What would happen if there is no ozone present in the atmosphere?

**VI. Observe the following picture and answer the given questions.**

1.



- Which property of air is shown here?
- How does ink enter inside the dropper?
- Can you give one more example where you have used the property of air?

2. Have you ever seen that the tyre of your bicycle is flat? Why do you think this happens?



- Can you name any two things in which air is filled to give shape?

**Lesson-10**

**Worksheet-3**

**I. Fill in the blanks.**

- \_\_\_\_\_ is the process in which water is allowed to stand undisturbed in a container.
- \_\_\_\_\_ is a pure form of water.
- Boiling is a process by which we can remove \_\_\_\_\_ impurities.
- \_\_\_\_\_ is a process to speed up sedimentation process.
- A mixture of sand and clay can be separated using \_\_\_\_\_ process.
- \_\_\_\_\_ method is used in homes to make water germ free.
- The process in which water does not get wasted while purifying is \_\_\_\_\_
- When two objects float, the \_\_\_\_\_ object displaces more water.
- Drinking water is called \_\_\_\_\_ water.
- \_\_\_\_\_ is the process of adding chlorine to purify water.

**II. Write true (t) or false (f).**

- Heavy things sink in water. ( )
- Process of purifying water by adding chlorine is called chlorination. ( )

3. Loading can be done by substance like alum. ( )
4. Water goes through several processes before reaching our homes through a network of pipelines. ( )
5. A tissue paper is used in the process of filtration. ( )
6. Distillation gives us the purest form of water. ( )

**III. Match the following.**

- |                 |              |
|-----------------|--------------|
| 1. Iron bar     | purification |
| 2. Salt         | Loading      |
| 3. Sand         | sinks        |
| 4. Alum         | Insoluble    |
| 5. Distillation | soluble      |

**IV. Answer these short answer questions.**

1. What is potable water?
2. Why is evaporation not a very good idea to remove soluble impurities?
3. Name two kinds of impurities.
4. What is chlorination?
5. Name any two water reservoirs that you know.

**V. Answer these long answer questions.**

1. Describe how water reaches our homes?
2. Explain the process of distillation with the help of neatly labelled diagram.
3. Name the method of purification and things required for the following:
  - a. Fine clay mixed with water.
  - b. Tap water being used for drinking at home and in cities.
  - c. Separating a mixture of water and oil.
4. Observe the following picture and answer the questions given.



- i. Name the water source from where the child is drinking water.
- ii. Is he doing the right thing ? why?
- iii. What should he do instead?