



# CREST Science Olympiad (CSO) Worksheet *for* Class 6



**Topic**

**Water and Air**



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## Worksheet on Water and Air

1. Which of the following statements is true about water?

- a. Water is not essential for the existence of living organisms.
- b. Freshwater accounts for about 97% of the Earth's surface.
- c. Rainwater, groundwater, rivers, and sea are sources of water.
- d. Water cycle involves only the processes of evaporation and precipitation.

2. In an experiment, a burning candle is placed inside a jar. After a few minutes, the flame starts to flicker and eventually goes out. Which gas in the jar is consumed by the flame?

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

3. Consider the following statements and choose the correct option:

**Statement I:** Drought occurs when there is excessive rainfall in a region for an extended period.

**Statement II:** Drought can lead to water scarcity and shortage of food.

- a. Statement I is correct but statement II is incorrect.
- b. Statement I is incorrect but statement II is correct.
- c. Both statements are correct.
- d. Both statements are incorrect.

4. Which of the following functions does air serve in the water cycle?

- a. Air carries water vapour from the oceans to the land.
- b. Air helps regulate the temperature of the Earth's surface.
- c. Air condenses water vapour into clouds.
- d. All of the above.

5. Fill in the blanks:

The \_\_\_\_\_ is the layer of the atmosphere where the International Space Station (ISS) orbits. Below it lies the \_\_\_\_\_.

- a. exosphere, thermosphere
- b. mesosphere, thermosphere
- c. stratosphere, troposphere
- d. thermosphere, mesosphere

## Answer Key

1. c - Rainwater, groundwater, rivers, and the sea are sources of water. All the other statements are false.
2. b - The gas in the jar that is consumed by the flame is oxygen. Oxygen is necessary for combustion, and the flame of the candle utilizes the oxygen in the air to sustain the burning process. As the flame burns, it consumes all the available oxygen in the jar until it extinguishes.
3. b - Drought actually occurs when there is a prolonged period of significantly below-average rainfall in a region, leading to a shortage of water resources. This scarcity of water can then have many effects, including a shortage of food due to the impact on agriculture.
4. d - Air serves multiple functions in the water cycle. It carries water vapour from the oceans to the land, helping in the process of evaporation and transportation of moisture. Air also helps regulate the temperature of the Earth. Additionally, air plays a crucial role in the condensation of water vapour, forming clouds and eventually leading to precipitation.
5. a - The Exosphere is the outermost layer of the Earth's atmosphere and it extends into space. This is where satellites, including the International Space Station (ISS), orbit around the Earth. Below the Exosphere is the Thermosphere, which is the layer where the temperature increases with altitude.

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