

# Atmosphere Progress test 2

**Instructions for students:** Follow your teacher's instruction. Also you can attempt this test online and see your result.

[Attempt online and know results](#)

**Topic:** Atmosphere

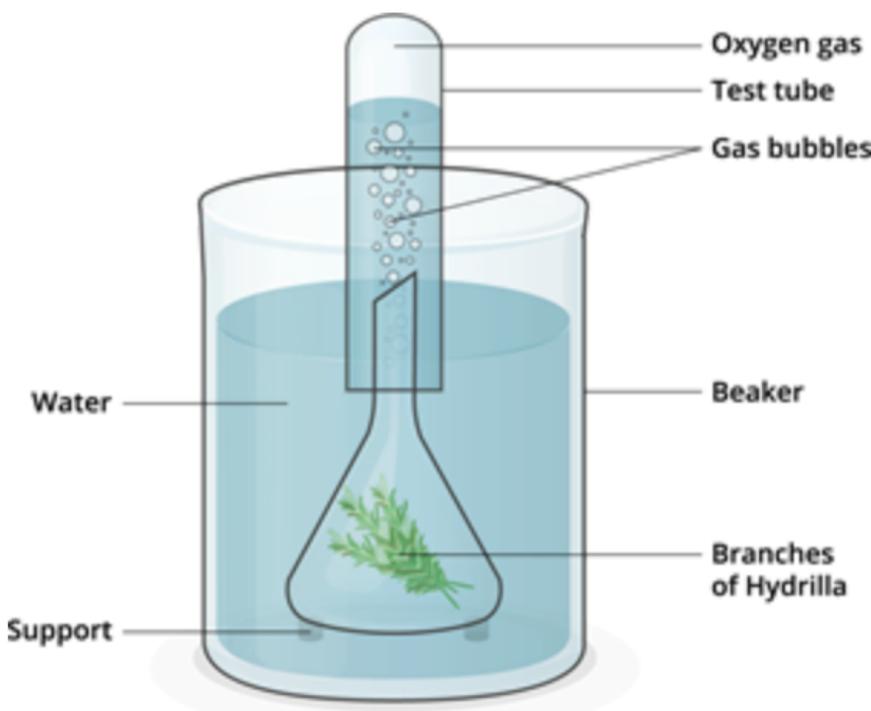
**Dates:** 05.10.2022 until unlimited

**Question count:** 3

**Total marks:** 18

## 1. Photosynthesis and rusting (8 m.)

Give the procedure to show the release of oxygen from plants.



## **STEP 1:**

- A)** Take a small tub filled with water
- B)** Take a large bowl is filled with water
- C)** Take a small healthy Hydrilla branch and place it in a funnel

## **STEP 2:**

- A)** Place the lighted candle on the tub
- B)** Invert the funnel in a beaker filled with water
- C)** The mouth of an empty bottle is dipped into the water-filled bowl

## **STEP 3:**

- A)** Take a test tube and invert it over the stem of the funnel
- B)** Cover the lighted candle with a transparent glass tumbler
- C)** The water does not enter into the bottle

## **STEP 4:**

- A)** When the bottle is tilted sideways, the air bubbles came out of the bottle
- B)** Place the funnel such that the stem is fully immersed in the water
- C)** The candle then got extinguished after some time

## STEP 5:

- A) Finally, the water enters into the bottle by occupying the space inside
- B) Keep the beaker setup in the sunlight for some time
- C) Candle extinguished due to the limited amount of gas inside the glass tumbler

## Observation:

- A) Increase in the amount of nitrogen in the air
- B) Small air bubbles show the presence of carbon-di-oxide in air
- C) Small air bubbles rise in the test tube showing the presence of oxygen

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## 2. Test for gases in air (6 m.)

Read the statement and select the correct answer:

- A)  
John placed a mouse on a plate and closed with a glass jar. After some time, the mouse was dead inside the jar due to the

**Statement 1:** Insufficient amount of oxygen inside the jar.

**Statement 2:** Insufficient amount of air inside the jar.

- A) Only statement 2 is correct
- B) Both the statement 1 and 2 is correct
- C) Only statement 1 is correct
- D) Both the statement 1 and 2 are wrong

**B)**

John bought a potato chips packet, from the shop. When he opened the packet he was surprised to see only a few chips filling only half of the packet, and the rest was filled with air. The air inside the packet was

**Statement 1:** Oxygen which is used to keep the food fresh.

**Statement 2:** Nitrogen which is used to keep the food fresh.

- A) Only statement 1 is correct
- B) Only statement 2 is correct
- C) Both the statement 1 and 2 is correct
- D) Both the statement 1 and 2 are wrong

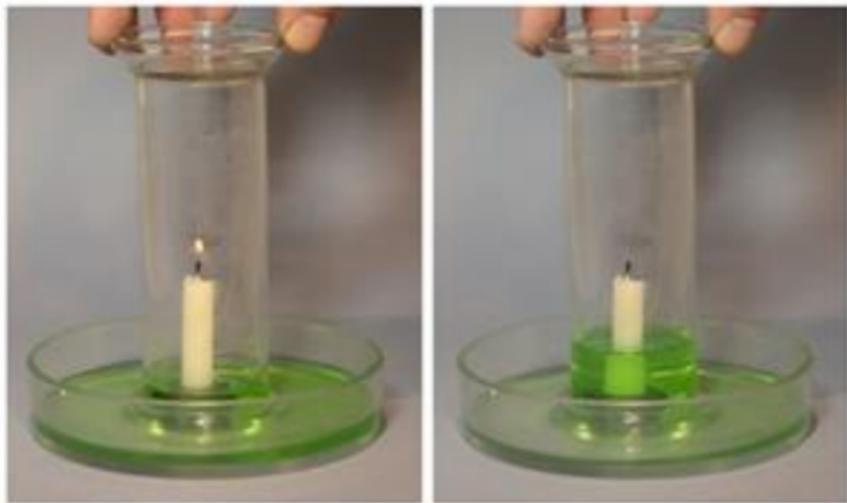
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### 3. Detection of gases (4 m.)

Choose the best option:

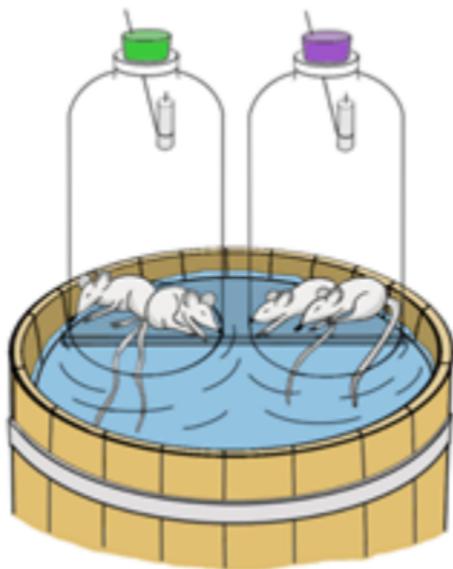
1.



Why the plate or the tub was filled with water?

- A) To cool the flame
- B) To seal the pathway of air
- C) To place the candle properly

2.



In the given figure, what may be the reason for the death of the mouse?

- A) Due to insufficient amount of air
- B) Due to insufficient amount of oxygen
- C) Due to insufficient amount of nitrogen

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