

		
	<p style="text-align: center;">CHANGING FOR CLIMATE CHANGES</p>	

Experiment 7- A7 Belgium: plants convert carbondioxide into oxygen

1. INTRODUCTION

Forests are considered the lungs of the planet because plants provide the creation of oxygen gas. During photosynthesis, with the help of light, water and CO₂ are converted into sugars and O₂. And we need that oxygen to live.

2. ORIENTATION

A candle needs O₂ to burn. While burning, the candle produces CO₂. So if we cover the candle, the CO₂ that is generated will extinguish the candle since there is no O₂ enough. Can a plant, covered together with the candle, help the candle to burn longer?

3. PREPARATION

3.1. Materials:

- 2 candles or tealights
- 1 plant
- 1 fake plant (or something else), about the same volume as the real plan
- 1 or 2 glass goblets, big enough for the candle and the plant
- chronometer

3.2. Method:

- Burn the candle and put it next to the plant.
- Cover plant and candle with the glass goblet.
- Make sure that no air can enter the goblet.
- Chronometre how long it takes for the candle to be extinguished.
- Repeat this with the fake plant instead of the real one (or if you have 2 goblets, you can do it simultaneously to see the difference)

4. RESULTS

Observations:

Compare the time needed for the candle to be extinguished.

Real plant= 7 min 53 sec

Fake plant= 6 min 52 sec

5. REFLECTION

Can you make the connection between this experiment and the need of more woods combating global warming? Plants create oxygen gas out of CO₂ if more and more woods disappear, less CO₂ can be converted into O₂.

6. e-book

Take several pictures during the experiment. You can also film it.