

Science Cycle 2 Grade 7

Introduction:

Determine how carbon dioxide concentration and light intensity affect the rate of photosynthesis in an aquatic plant. Measure the rate of photosynthesis by counting the oxygen bubbles that are released.

Viscosity

Strand: Investigating Scientifically

Team members:

1. _____
2. _____
3. _____
4. _____

Click here:

1. **Design a scientific question to investigate viscosity of different liquids.**

اختر السؤال العلمي المناسب. Chose the best Scientific Question.

A. How does the light intensity and CO₂ affect on the rate of photosynthesis?

B. How does the oxygen affect on the rate of photosynthesis?

C. What is the relationship between CO₂ and O₂?

2. **Decide what variable you will change, what variable you will measure and what variables you will keep the same.** حدد المتغيرات فالتجربة.

| Change (X) الذي يتم تغييره | Measure (Y) الذي يتم قياسه | Same الذي لم يتغير |
|----------------------------|----------------------------|--------------------|
| | | |

3. **Is this a fair test? Yes/No** هل تتوقع أنها تجربة عادلة

4. Tick or circle to select equipment needed for this experiment

اختر أدوات التجربة

| | | | |
|--|---|---|--|
|  Funnel |  Measuring cylinder |  beaker |  ruler |
|  balance |  lamp |  Stop watch |  plant |

5. What happened? Write your results in a suitable table. سجل القراءات في الجدول التالي.

count the oxygen bubbles
record your results

| | light intensity (lux) | | |
|-----------------------------|-----------------------|-------|-------|
| | 5000 | 15000 | 25000 |
| CO ₂ conc. (ppm) | | | |
| 0 | | | |
| 800 | | | |
| 600 | | | |
| 1200 | | | |