Friday 18th February 2022

Required Practical 5 – Photosynthesis

Aim

To investigate the effect of light intensity on photosynthesis.

Equipment

Metre stick, Light source, Stopwatch, Beaker, Forceps, Filter funnel, 10cm3 measuring cylinder, freshly cut pondweed (10cm)

Timeline

Description automatically generated

Variables

Independent Variable – Distance from the light source

Dependent variable – Number of bubbles produced per minute

Control Variables – Amount + temp of water, same cutting of pondweed,

Method

1. Setup the equipment as shown in the diagram.
2. Cut a piece of the pondweed 8-10cm long.
3. Using forceps, place the pondweed under the funnel.
4. Position the light source so that it is 50cm away from the pondweed.
5. Count the number of bubbles coming from the pondweed in 1 minute and record the result in a table.
6. Repeat this count 2 more times and calculate an average.
7. Move the light source closer to the pondweed and complete steps 4-6 as many times as desired.

Safety

Keep all electrical equipment dry, and do not handle it with wet hands.