

WJEC Wales Biology GCSE

SP1.5A - Photosynthesis

Flashcards

This work by [PMT Education](https://www.pmt.education) is licensed under [CC BY-NC-ND 4.0](https://creativecommons.org/licenses/by-nc-nd/4.0/)



State the factors affecting the rate of photosynthesis.



State the factors affecting the rate of photosynthesis.

Light intensity

Carbon dioxide concentration

Temperature



How is the rate of photosynthesis measured?



How is the rate of photosynthesis measured?

Place a piece of cut pondweed into a beaker containing sodium hydrogen carbonate solution.

Count the number of bubbles produced in a given time.



How is light intensity controlled?



How is light intensity controlled?

By placing the lamp/light source at different distances from the plant.



Why is the number of bubbles formed per minute counted?



Why is the number of bubbles formed per minute counted?

The bubbles formed indicates the production of oxygen during photosynthesis. The rate of bubble formation is proportional to the rate of photosynthesis.



State a source of error in this practical.



State a source of error in this practical.

Bubbles may appear too quickly to be accurately counted.



What is the purpose of adding sodium hydrogen carbonate to the beaker containing pondweed?



What is the purpose of adding sodium hydrogen carbonate to the beaker containing pondweed?

To provide carbon dioxide for photosynthesis.

