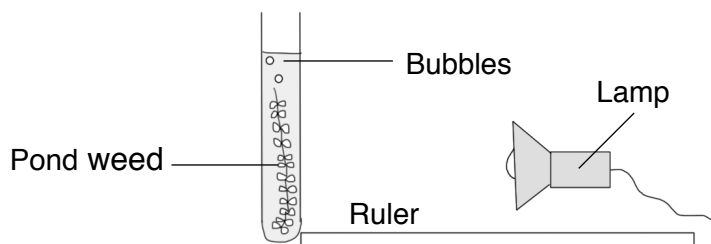


- 1 Some students investigated the effect of light intensity on the rate of photosynthesis. They used the following method:



1. Place a lamp at 80 cm from the pond weed.
2. Wait three minutes.
3. Count the number of bubbles released from the pond weed in one minute.
4. Move the lamp 10 cm closer.
5. Repeat steps 2 to 4 and stop at 20 cm.

- 1 (a) Why did the students wait three minutes before taking a reading at each distance?

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(1 mark)

- 1 (b) The lamp produces heat as well as light. Suggest an explanation for why the students did not record data for distances below 20 cm?

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(2 marks)

The table shows the results of the experiment.

Distance (cm)	20	30	40	50	60	70	80
Bubbles per minute	18	18	18	15	12	7	2

- 1 (b) (i) Describe and explain the results for distances from 40 to 20 cm

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(3 marks)

(Total 6 marks)