

> Workbook answers

Unit 1 Photosynthesis and the carbon cycle

Topic 1.1 Photosynthesis

Exercise 1.1A How light level affects photosynthesis

- 1 The type of plant; the mass of the plant; the temperature

2

Apparatus	Amount of light	Volume of gas collected in cm ³
A	high	18.3
B	low	7.2
C	none	0.5

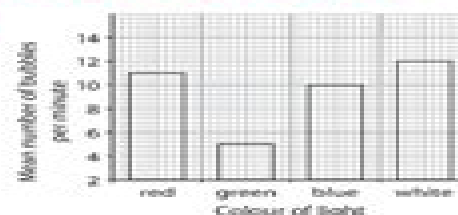
- 3 Plants photosynthesise faster when they have more light.

Exercise 1.1B The effect of different colours of light on the rate of photosynthesis

- 1 The colour of the light / cellophane.
 2 The number of bubbles produced in one minute.
 3 Any three from: the light intensity (strength); the type of water the water plant was in; the quantity of water plant; the type of water plant; the temperature.
 4 For example:

Colour of light	Number of bubbles per minute			
	1st try	2nd try	3rd try	mean
white	11	13	12	12
red	10	12	11	11
green	4	5	6	5
blue	8	12	10	10

5



- 6 Accept any valid conclusion that can be made from these results, for example: plants photosynthesise fastest in white light; photosynthesis happens faster in blue light than in green light.

Exercise 1.1C Turning an idea into a hypothesis that can be tested

- 1 Accept any answer that:
- is in the form of a clearly phrased hypothesis
 - relates to the effect of carbon dioxide on the rate of photosynthesis of an aquatic plant
 - can be tested by experiment.

For example, a possible hypothesis could be: Water plants give off more bubbles per minute when they are given more carbon dioxide.

- 2 Look for:
- a clear statement of the independent variable and dependent variable
 - at least two other variables that will be controlled
 - a clearly explained method, with enough detail that someone else could follow it, including a labelled diagram of the apparatus
 - a clear description of how the independent variable will be changed
 - a clear description of how and when results will be collected
 - a results chart, with headings and units (but no results)
 - a prediction based on scientific understanding.

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