# > Workbook answers

# Unit 1 Photosynthesis and the carbon cycle

#### Topic 1.1 Photosynthesis

# Exercise 1.1A How light level affects photosynthesis

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

Apparatus	Amount of light	Volume of gas collected in cm"	
Α.	high	18.3	
В	low	7.2	
C	niOne.	0.5	

3 Plants photosynthesise faster when they have more light.

#### Exercise 1.18 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:

2

Colour of light	Number of bubbles per minute			
	1st try	2nd try	3rd try	mean
white	11	13	12	12
red	10	12	1.1	1.1
green	- 4	5	- 6	5
blue	8	. 12	10	10



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 Leook 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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**TD Snyder** 

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