

# > 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 <sup>3</sup> |
|-----------|-----------------|--------------------------------------------|
| A         | high            | 18.3                                       |
| B         | low             | 7.2                                        |
| C         | none            | 0.5                                        |

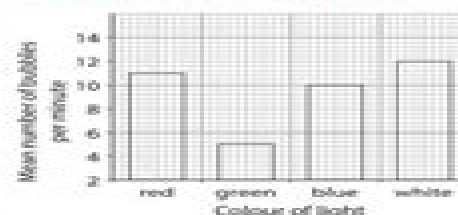
- 3 Plants photosynthesise faster when they have more light.

#### 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.

# Grade 9 Science Workbook Answers

**Chandan Sengupta**



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