

# > 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

Apparatus	Amount of light	Volume of gas collected in cm <sup>3</sup>
A	high	18.9
B	low	7.2
C	none	0.5

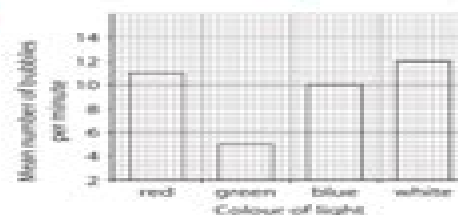
- 3 Plants photosynthesise faster when they have more light.

#### 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 10 Science Section 12 Workbook Answers

**Clemens Wendtner**



## **Grade 10 Science Section 12 Workbook Answers:**

## **Grade 10 Science Section 12 Workbook Answers** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Grade 10 Science Section 12 Workbook Answers**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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