# > 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

- 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.

# **Physical Science And Study Workbook Answers 9**

**Clemens Wendtner** 

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#### **Table of Contents Physical Science And Study Workbook Answers 9**

- 1. Understanding the eBook Physical Science And Study Workbook Answers 9
  - o The Rise of Digital Reading Physical Science And Study Workbook Answers 9
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Physical Science And Study Workbook Answers 9
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Physical Science And Study Workbook Answers 9
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Physical Science And Study Workbook Answers 9
  - Personalized Recommendations

- Physical Science And Study Workbook Answers 9 User Reviews and Ratings
- Physical Science And Study Workbook Answers 9 and Bestseller Lists
- 5. Accessing Physical Science And Study Workbook Answers 9 Free and Paid eBooks
  - Physical Science And Study Workbook Answers 9 Public Domain eBooks
  - Physical Science And Study Workbook Answers 9 eBook Subscription Services
  - Physical Science And Study Workbook Answers 9 Budget-Friendly Options
- 6. Navigating Physical Science And Study Workbook Answers 9 eBook Formats
  - o ePub, PDF, MOBI, and More
  - Physical Science And Study Workbook Answers 9 Compatibility with Devices
  - Physical Science And Study Workbook Answers 9 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Physical Science And Study Workbook Answers 9
  - Highlighting and Note-Taking Physical Science And Study Workbook Answers 9
  - Interactive Elements Physical Science And Study Workbook Answers 9
- 8. Staying Engaged with Physical Science And Study Workbook Answers 9
  - o Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Science And Study Workbook Answers 9
- 9. Balancing eBooks and Physical Books Physical Science And Study Workbook Answers 9
  - ∘ Benefits of a Digital Library
  - $\circ$  Creating a Diverse Reading Collection Physical Science And Study Workbook Answers 9
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science And Study Workbook Answers 9
  - Setting Reading Goals Physical Science And Study Workbook Answers 9
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science And Study Workbook Answers 9
  - Fact-Checking eBook Content of Physical Science And Study Workbook Answers 9

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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