

# > 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                                        |

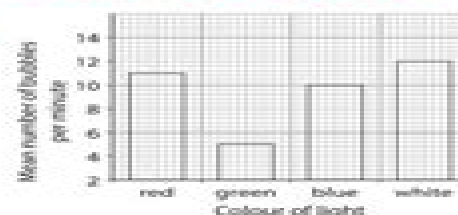
- 3 Plants photosynthesise faster when they have more light.

#### 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.

# Answers For Pearson Science 9 Workbook

**Sue Newton**



## **Answers For Pearson Science 9 Workbook:**

**Computer Applications** Jonathan Chan, 2007      Objective CAE Workbook Felicity O'Dell, Annie Broadhead, 2008-01-10

This course has been revised for the updated CAE exam syllabus to be introduced in December 2008. It contains 30 short units which take a fresh approach to a wide variety of topics and exam related genres useful for the exam. Authentic language examples illustrate a wide range of real English usage and a Grammar Folder appendix provides further examples and explanations. The course is written by experienced authors who have an in depth knowledge of the CAE exam and contains material informed by the Cambridge Learner Corpus which highlights typical mistakes made by CAE candidates. Updated syllabus to correspond to the new December 2008 exam syllabus. Writing Folders develop the full range of writing skills needed for the CAE exam. Exams Folders familiarise candidates with exam task types. A Grammar Folder appendix provides further explanations and examples. Regular revision units measure students progress and recycle grammar and vocabulary. Corpus informed to make students aware of common mistakes and to present the most authentic up to date language.

**Scott Foresman Science**, 2008      **Learning From Textbooks** Bruce K. Britton, Arthur Woodward, Marilyn

Binkley, 2012-11-12. It is surprising that there is so little research on textbooks given their centrality to teaching and learning in elementary and secondary schools. Textbooks have become a focus of political and cultural controversy advocating a multicultural curriculum that has sparked some vigorous protests. Research is absent in this debate therefore questions of legitimate knowledge, the role of textbooks, textbook design, policy, selection issues and economic issues concerning the marketplace are not part of the current debate. Without insights of research on considerate text mentioning illustrations and so forth the current controversy will result in publishers responding to demands for more content not less. Thus textbooks will become compendia of information that on the surface satisfy everyone. This volume demonstrates how research on important issues relative to textbook design can advance our knowledge about what makes textbooks effective learning tools and thus inform policymakers, publishers and those involved in textbook selection. Representing pure and applied approaches, researchers present papers on the quality of writing, the role of questions, the role of pictures and illustrations and the role of auxiliary materials in the design of effective textbooks. The chapters provide insight into research and its application to textbook design and improvement, stimulating others to follow this lead.      Sif: Chemistry S5n Theory Wb J. G. R.

Briggs, 2002      **New Zealand Books in Print 2004** Thorpe-Bowker Staff, 2004-06. Directory containing updated bibliographic information on all in print New Zealand books. 33rd edition of an annual publication. The 12 500 book entries are listed by title and there is an index to authors. Also provided are details of 975 publishers and distributors and local agents of overseas publishers. The book trade directory includes contacts for trade organisations, booksellers, public libraries and specialised suppliers. NZ literary awards and past winners and sources of financial assistance for writers and publishers.

**Addiction is Addiction Workbook** Sue Newton, 2018-03-26. Addiction is a primary chronic brain disease. Primary means

that it is not caused by anything else and chronic means that it lasts a lifetime Genetic factors account for more than half the likelihood that an individual will develop Addiction but environment also plays a significant role in its expression Our goal in writing this workbook is to help you appreciate the principles discussed in our book Addiction is Addiction and to expand your awareness and provide clarity about how the disease has been affecting you and others around you It is helpful although not necessary to have read Addiction is Addiction prior to starting this workbook This resource has been designed for those who have read our previous book and those who have not The title Addiction is Addiction highlights that whether a person s problem is with substances or behaviors such as food gambling sex and love these are all manifestations of the same disease and are not mutually exclusive

Construction Science and Materials Surinder Singh Viridi, 2017-02-06 Construction Science Materials is designed to cover topics studied at levels 2 5 on Construction HND courses and is also suitable for first year undergraduates on construction courses as well as Building surveying Architectural Technology and Quantity Surveying It is an essential text for those who have done no science since their GCSEs Divided into 17 chapters each with written explanations supplemented by solved examples and relevant diagrams to substantiate the text Chapters end with numerical questions covering a range of problems and their answers are given at the end of the book and on the book s website

**Living Smart Home Econ S2 Wb Exp** ,2009      Science Explorer Physical Science Michael J. Padilla, Ioannis Miaculis, Martha Cyr,

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