> 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	nOne.	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.

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Arturo Cuomo

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Table of Contents Science Workbook Answer

- 1. Understanding the eBook Science Workbook Answer
 - The Rise of Digital Reading Science Workbook Answer
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Science Workbook Answer
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Science Workbook Answer
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Science Workbook Answer
 - Personalized Recommendations
 - Science Workbook Answer User Reviews and Ratings
 - Science Workbook Answer and Bestseller Lists
- 5. Accessing Science Workbook Answer Free and Paid eBooks

- Science Workbook Answer Public Domain eBooks
- Science Workbook Answer eBook Subscription Services
- Science Workbook Answer Budget-Friendly Options
- 6. Navigating Science Workbook Answer eBook Formats
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 - Science Workbook Answer Enhanced eBook Features
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 - Adjustable Fonts and Text Sizes of Science Workbook Answer
 - Highlighting and Note-Taking Science Workbook Answer
 - Interactive Elements Science Workbook Answer
- 8. Staying Engaged with Science Workbook Answer
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Science Workbook Answer
- 9. Balancing eBooks and Physical Books Science Workbook Answer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Science Workbook Answer
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Science Workbook Answer
 - Setting Reading Goals Science Workbook Answer
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Science Workbook Answer
 - Fact-Checking eBook Content of Science Workbook Answer
 - 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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web a food chain outlines who eats whom a food web is all of the food chains in an ecosystem each organism in an ecosystem occupies a specific trophic level or position in the food chain or web producers who make their own food using photosynthesis or chemosynthesis make up the bottom of the trophic pyramid

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web sep 10 2023 it has nutritional bilateral and interaction with the ecosystem's biotic components the limbs of a food chain are plants and animals that are successively dependent on one another it has three to four trophic levels the highest level is 5 shorter food chains mean more available energy and vice versa

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web in ecology a food chain is a series of organisms that eat one another so that energy and nutrients flow from one to the next for example if you had a hamburger for lunch you might be part of a food chain that looks like this grass rightarrow cow rightarrow human

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