


# Biotic and Abiotic Factors



GCSE Biology Topic 1: Ecology

**Biology**  Name: \_\_\_\_\_

## Biotic and Abiotic Factors

### Launch

Classify each of the following factors affecting abundance and distribution of organisms as biotic and abiotic.

Factor	Biotic	Abiotic
Light intensity		
Availability of food		
Soil mineral content		
Few pathogens		

### Main Stage

3. The graph on the right shows the rate of photosynthesis against carbon dioxide concentration. Use the graph to answer the questions below.

a. Describe the relationship between carbon dioxide concentration and the rate of photosynthesis.



b. Suggest two ways in which you can increase carbon dioxide concentration to improve crop production.

c. Sketch a graph showing the effect of increasing the temperature on the rate of photosynthesis. (The x-axis is now temperature).

d. Which of the following is true or false?

- Increasing light intensity always increases the growth rate of plants.
- Hydrangea flowers change colours depending on the soil pH levels.
- Magnesium deficiency leads to yellowing of leaves.
- Windy places have more plants than sheltered locations.

30. Label 3 biotic and 4 abiotic factors in the diagram.



# Fun Activities For Teaching Biotic And Abiotic

**Peter Lucantoni**



## **Fun Activities For Teaching Biotic And Abiotic:**

**Creativity for Learning** Kristy Doss, Lisa Bloom, 2025-09-15 Creativity for Learning provides a comprehensive understanding of creativity's role in learning as well as practical approaches to teaching creative thinking strategies to diverse learners. This book provides a roadmap for creating instructional practices that allow learners to go beyond knowledge acquisition. Chapters provide research on creativity along with insights from professionals who apply creativity in their work, offering valuable guidance on how to nurture these essential skills in the classroom. Packed with research-based activities to help learners acquire and exercise creative thinking, novel approaches to assessment as well as suggestions for learning space design, this book has everything you need to orchestrate a classroom that fosters equitable talent development for all students across the content areas. This must-read guide will be the trusted companion for all educators seeking to transform their students into creative thinkers ready to meet the challenges of an uncertain future. *The Science Teacher's Toolbox* Tara C. Dale, Mandi S. White, 2020-04-28 A winning educational formula of engaging lessons and powerful strategies for science teachers in numerous classroom settings. The Teacher's Toolbox series is an innovative research-based resource providing teachers with instructional strategies for students of all levels and abilities. Each book in the collection focuses on a specific content area. Clear, concise guidance enables teachers to quickly integrate low-prep, high-value lessons and strategies in their middle school and high school classrooms. Every strategy follows a practical how-to format established by the series editors. The Science Teacher's Toolbox is a classroom-tested resource offering hundreds of accessible, student-friendly lessons and strategies that can be implemented in a variety of educational settings. Concise chapters fully explain the research basis, necessary technology, Next Generation Science Standards correlation, and implementation of each lesson and strategy. Favoring a hands-on approach, this book provides step-by-step instructions that help teachers to apply their new skills and knowledge in their classrooms immediately. Lessons cover topics such as setting up labs, conducting experiments using graphs, analyzing data, writing lab reports, incorporating technology, assessing student learning, teaching all ability students, and much more. This book enables science teachers to understand how each strategy works in the classroom and avoid common mistakes. Promote culturally responsive classrooms. Activate and enhance prior knowledge. Bring fresh and engaging activities into the classroom and the science lab. Written by respected authors and educators, The Science Teacher's Toolbox: Hundreds of Practical Ideas to Support Your Students is an invaluable aid for upper elementary, middle school, and high school science educators as well as those in teacher education programs and staff development professionals. **Introduction to English as a Second Language Teacher's Book** Peter Lucantoni, 2015-01-29 Introduction to English as a Second Language Teacher's Book is part of the series of resources which bring students to a level where they are ready to study Cambridge IGCSE or equivalent courses and accompanies the Introduction to English as a Second Language Coursebook and Workbook. The series is written by an experienced ESL teacher and trainer and includes answers to all of the exercises in the

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