

Nature of Biology Book 1 Third Edition Activity Manual

Features of the new edition

The third edition of the *Nature of Biology Book 1 Activity Manual* is redesigned, updated and reorganised to:

- meet the practical requirements of the new Biology VCE Study Design, in conjunction with the student textbook and CD-ROM
- increase the appeal, interest and variety of resources for students
- test students' understanding of concepts and topics covered
- encourage students to extend their knowledge and explore current issues in biology.

For each chapter, there are 3-4 in-depth **activities**. These supplement and extend the textbook content and include practical investigations, both laboratory and field work, data interpretation exercises, homework and web-based activities. The use of technology is fully integrated.

A new inclusion is the **extended worksheets**, also linked to a chapter's content. These feature varied and stimulating tasks, space for student responses, the facility to detach for marking and teacher comments and the option to store in a folder for later retrieval and revision.

The chapters end with a bank of **test questions** through which students can check their understanding. The types of questions include multiple choice, fill in the spaces, match the terms and true/false.

The team of **authors** for the *Nature of Biology Activity Manuals* comprises highly qualified Biology educators with a keen desire to stimulate students' involvement and foster a lifelong interest in Biology.

Please revisit this site in August to access a complete contents list and **sample pages** to download.

Preliminary contents

To the student
Acknowledgements

1 Cells: discovery and exploration

Activities and practical investigations
Extended worksheets
Chapter 1 in review: questions

2 Structure and function of cells

Activities and practical investigations
Extended worksheets
Chapter 2 in review: questions

3 Cells: what are they made of?

Activities and practical investigations

Extended worksheets

Chapter 3 in review: questions

4 Cell replication

Activities and practical investigations

Extended worksheets

Chapter 4 in review: questions

5 Obtaining energy and nutrients for life

Activities and practical investigations

Extended worksheets

Chapter 5 in review: questions

6 Distribution of materials

Activities and practical investigations

Extended worksheets

Chapter 6 in review: questions

7 Reproduction

Activities and practical investigations

Extended worksheets

Chapter 7 in review: questions

8 Ordering the living world

Activities and practical investigations

Extended worksheets

Chapter 8 in review: multiple choice, true/false questions

9 Habitats and environmental resources

Activities and practical investigations

Extended worksheets

Chapter 9 in review: questions

10 Physiological adaptations for survival

Activities and practical investigations

Extended worksheets

Chapter 10 in review: questions

11 Behaviour for survival

Activities and practical investigations

Extended worksheets

Chapter 11 in review: questions

12 Reproductive strategies for survival

Activities and practical investigations

Extended worksheets

Chapter 12 in review: questions

13 Ecosystems and their living communities

Activities and practical investigations

Extended worksheets

Chapter 13 in review: questions

14 Population dynamics

Activities and practical investigations

Extended worksheets

Chapter 14 in review: questions

15 Flow of energy and cycling of matter

Activities and practical investigations

Extended worksheets

Chapter 15 in review: questions

16 Changes to ecosystems over time

Activities and practical investigations

Extended worksheets

Chapter 16 in review: questions

Answers to Chapter in review questions