

E-book Code: REAU4031





Life and **Living** for 8-10 year olds

Practical hands-on science activities

 Contains comprehensive teachers' notes and lesson ideas

Written by Kevin Rigg. Illustrated by Terry Allen and Melinda Brezmen. Design & Typesetting by Shay Howard. Published by Ready-Ed Publications (2007) © Ready-Ed Publications - 2007. P.O. Box 276 Greenwood Perth W.A. 6024 Email: info@readyed.com.au Website: www.readyed.com.au

COPYRIGHT NOTICE

Permission is granted for the purchaser to photocopy sufficient copies for non-commercial educational purposes. However, this permission is not transferable and applies only to the purchasing individual or institution.

ISBN 1 86397 681 7

Contents

Teachers' Notes	page 4
Presentation Ideas	page 5
Curriculum Links	page 6
Lesson 1: Homes for Animals	_
Teachers' Notes	page 8
Activity	page 9
Lesson 2: My Tree (1)	
Teachers' Notes	page 10
Activity	page 11
Lesson 3: My Tree (2)	
Teachers' Notes	page 12
Activity	page 13
Lesson 4: The Animal Kingdom	
Teachers' Notes	page 14
Activity (a)	page 15
Activity (b)	page 16
Lesson 5: Invertebrate Study (1)	
Teachers' Notes	page 17
Activity	page 18
Lesson 6: Invertebrate Study (2)	
Teachers' Notes	page 19
Activity	page 20
Lesson 7: Plants and Light	
Teachers' Notes	page 21
Activity (a)	page 22
Activity (b)	page 23
Lesson 8: Honey Bee Project Plan	
Teachers' Notes	page 24
Activity (a)	page 25
Activity (b)	page 26
Answers	page 27



Teachers' Notes

This book contains a package of photocopiable worksheets designed to be used to cover the Science learning area of "*Life and Living*" with 8-10 year old students.

At this level the students gain understandings into the relationships between animals and plants and their needs within their habitat. Specific tasks include an in-depth study of a tree habitat in the school grounds, research into the animal kingdom, observing and researching an invertebrate specimen, gathering data and analysing the effect of of light on plants, and planning and undertaking a research project on honey bees.

Each lesson has the potential to:

- extend into more than one lesson by having separate parts to the lesson sheet. Some sections of a lesson may need planning on other paper before final copies are transferred to the lesson sheet. Some lessons may be too long for one lesson and could be completed at another time.
- expand into other curriculum areas using a similar theme. There are ideas for crosscurricular integration with other learning areas. Sometimes a whole day's work could be planned around one lesson sheet.

Science Materials and Equipment

The equipment needed has been kept to a minimum to facilitate ease of planning. It is readily available in schools or is easily acquired.

All lesson sheets are outcome linked to the various curriculum documents (see page 6).

Answers are provided where necessary (see page 27).

Other books in the Practical Science series:

- Earth and Beyond
- Energy and Change
- Natural and Processed Materials
- Working Scientifically

Lesson Sheets Layout



Student learning activities



TEACHERS' NOTES INCLUDE:

(FOR EACH LESSON)

- Outcome links;
- Required materials;
- Lesson plan ideas including extension ideas and teaching tips;
- Cross-curricular/integration ideas.



Teachers' Notes

Homes for Animals

Learning Outcomes:

- Describes the types of relationships between living things.
- Compares and contrasts similarities and differences within and between groups of familiar living things.

Materials:

- bird cage and/or mouse cage and/or aquarium
- photos or posters of wild animals in their natural habitat
- library book loan on a variety of animals

Lesson Ideas:

- Brainstorm the needs of all living things. List on board.
- Discuss why animals need a secure shelter. Children can write their ideas on a separate piece of paper before committing them to the worksheet.
- Look up information about animal enclosures on the Internet with children taking notes on what the animals have been provided with to make them comfortable.
 - www.sandiegozoo.org
 - www.zoo.nsw.gov.au
 - www.zoo.org.au
 - www.nationalgeographic.com/tigers/maina.html
- Children should discuss which animals they are going to choose to research. Encourage a wide choice/variety of animals (e.g. choosing a mammal, bird, insect, fish, etc.).
- Students write about the needs of the animal and the reasons for that type of shelter.
- Brainstorm the types of animals that live in communities (not just insects). List the advantages for animals in living in a community.

Integration Ideas:

The Arts: Children paint or draw a picture of a "community" of animals. **English (Spelling):** Collate a list of words relating to animals and their homes for word study activities.



