

***Practical
Science***

Earth and Beyond

for 6-8 year olds

- Practical hands-on science activities
- Contains comprehensive teachers' notes and lesson ideas



Written by Kevin Rigg. Illustrated by Elizabeth Buckley. Design & Typesetting by Shay Howard.

Revised by Ready-Ed Publications (2017)

© Ready-Ed Publications - 2007. P.O. Box 276 Greenwood Perth W.A. 6024

Email: info@readyed.com.au Website: www.readyed.net

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 978 1 86397 674 9

Teachers' Notes	 page 4
Presentation Ideas	 page 5
Curriculum Links	 page 6
 Lesson 1: Season Match	
Teachers' Notes	 page 8
Activity	 page 9
 Lesson 2: Favourite Seasons	
Teachers' Notes	 page 10
Activity	 page 11
 Lesson 3: Environments	
Teachers' Notes	 page 12
Activity	 page 13
 Lesson 4: Natural and Built	
Teachers' Notes	 page 14
Activity	 page 15
 Lesson 5: Nocturnal Animals	
Teachers' Notes	 page 16
Activity	 page 17
 Lesson 6: Weather Watch (1)	
Teachers' Notes	 page 18
Activity	 page 19
 Lesson 7: Weather Watch (2)	
Teachers' Notes	 page 20
Activity	 page 21
 Lesson 8: Water and Home	
Teachers' Notes	 page 22
Activity	 page 23
 Answers	
	 page 24

This book contains a package of photocopiable worksheets designed to be used to cover the Science learning area of “**Earth and Beyond**” with 6-8 year old students.

At this level the students’ focus is on the local environment and how it affects them. Tasks involve drawing, discussing and writing about the things that students observe in their daily life. Opportunities are provided for students to develop skills such as labelling, data gathering, graphing, matching and carrying out simple surveys. Specific activities include identifying seasonal changes, understanding the concepts of natural and built, studying the features of nocturnal animals, watching the weather, and examining water use at home.

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 cross-curricular 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 24).

Other books in the Practical Science series:

- *Energy and Change*
- *Life and Living*
- *Natural and Processed Materials*
- *Working Scientifically*

Lesson Sheets Layout

STUDENT LESSON SHEET

① Lesson title

② Student learning activities

TEACHERS' NOTES INCLUDE:
(FOR EACH LESSON)

① Outcome links;

② Required materials;

③ Lesson plan ideas including extension ideas and teaching tips;

④ Cross-curricular/integration ideas.

Season Match

Learning Outcome:

- Lists ways that the local environment influences daily life.

Materials:

- *clothing items from both seasons, e.g. jumper, singlet*
- *sporting equipment from both seasons, e.g. football, tennis racquet*

Lesson Ideas:

- Discuss the clothing items. Children decide which season each item would be worn. Discuss other clothing worn in summer and winter.
- Children can complete the top section of the worksheet. Children should justify their answers with explanations.
- Children can answer the question orally before they write their answers.
- Show the sporting equipment and discuss sports the children like and what season sports are played in. Using the sports equipment, create a "Summer" pile and "Winter" pile. Select children to place the equipment in the correct pile.
- Children can write "Summer", "Winter" or "Both" under the sports pictures on the activity sheet. Children should be able to justify their answers.
- Make large "Summer" and "Winter" label cards and have children place them near the clothing and sports gear.

Integration Ideas:

The Arts: Children draw a summer/winter scene showing weather features and clothes.

English (Writing): Children write sentences about their favourite activities during summer/winter.

Society and Environment (SOSE / HSIE): Show posters or display weather in other countries (e.g. snow, beach scenes) and discuss how winter and summer weather differs.

A

Match the season to the clothes.

Summer

Winter

Summer and Winter

B

Why do we wear jumpers and coats in winter?

C

Write **Summer**, **Winter** or **Both** under each sport below.

Basketball

Football

Skiing

Snooker

Surfing

Tennis

Cricket

Rugby

D

Why do people ski in winter?
