

*Practical
Science*

Earth and Beyond

for 6-8 year olds

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



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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

The screenshot shows a student worksheet titled "Season Match" with the following activities:

- 1** Match the season to the clothes. (Includes images of a summer dress, winter coat, and mixed items.)
- 2** Why do we wear jumpers and coats in winter?
- C** Write 'Summer', 'Winter' or 'Both' under each sporting picture. (Includes Basketball, Football, Skiing, Pool, Surfing, Tennis, Cricket, Soccer.)
- D** Why do people ski in winter?

STUDENT LESSON SHEET

1 Lesson title

2 Student learning activities

The screenshot shows the "Teachers' Notes" for the "Season Match" lesson, with the following sections:

- 1 Learning Outcome:** Lets students see how environment influences daily life.
- 2 Materials:**
 - clothing items from both seasons, e.g. jumper, shirtlet
 - sporting equipment from both seasons, e.g. football, tennis racket
- 3 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.
 - Draw the sporting equipment and discuss sports that children can do in each season. Create and play a "Summer" and "Winter" game. Show children pictures of each sport and place the equipment in the correct pile.
 - Children can write down "Winter" or "Both" under the sports pictures on the activity sheet. Children should be able to justify their answers.
 - Make large "Summer" and "Winter" labels and have children place them near the clothing and sports gear.
- 4 Integration Ideas:**
 - The Arts:** Children draw a picture of a winter scene showing weather features and clothes.
 - English (Writing):** Children write or dictate about their favourite activities during summer/winter.
 - Society & Environment (BOSSE / HSIE):** How would it or any weather in other countries (e.g. snow, beach scenes) and discuss how winter and summer weather differs.

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?
