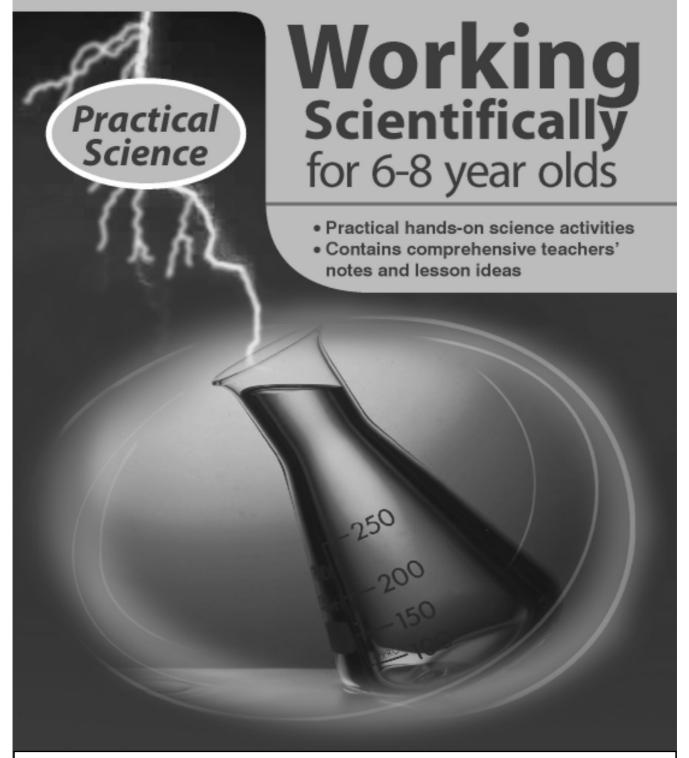


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**Answers** 

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## Teachers' Notes

This book contains a package of photocopiable worksheets designed to be used to cover the Science learning area of "Working Scientifically" with 6-8 year old students.

At this level the students should be able to solve simple problems and carry out investigations using familiar experiences. Their attention should be drawn to the 'how' and 'why' of the particular situations. In this book the students will develop their skills in testing, making simple written observations, gathering data, illustrating, labelling and naking simple graphs. Specific activities focus on light, colour, fingerprints and water. Also included are some investigations into surface friction and floating and sinking.

## 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

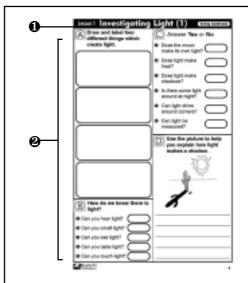
The equipment needed has been kept to a minimum to facilitate ease of planning. It is readily available in schools or is easily acquired.

All lesson sheets are outcome linked to the various curriculum documents (see page 6). Answers are provided where necessary (see page 24).

#### Other books in the Practical Science series:

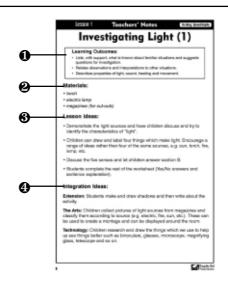
- Energy and Change
- Life and Living
- Natural and Processed Materials
- Earth and Beyond

### **Lesson Sheets Layout**



#### STUDENT LESSON SHEET

- Lesson title
- 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.



# **Investigating Light (1)**

## **Learning Outcomes:**

- Lists, with support, what is known about familiar situations and suggests questions for investigation.
- Relates observations and interpretations to other situations.
- Describes properties of light, sound, heating and movement.

## **Materials:**

- torch
- electric lamp
- magazines (for cut-outs)

## **Lesson Ideas:**

- Demonstrate the light sources and have children discuss and try to identify the characteristics of "light",
- Children can draw and label four things which make light. Encourage a range of ideas rather than four of the same sources, e.g. sun, torch, fire, lamp, etc.
- Discuss the five senses ar dilet children answer section B.
- Students complete the rest of the worksheet (Yes/No answers and sentence explanation).

## **Integration Ideas:**

**Extension:** Students make and draw shadows and then write about the activity.

**The Arts:** Children collect pictures of light sources from magazines and classify them according to source (e.g. electric, fire, sun, etc.). These can be used to create a montage and can be displayed around the room.

**Technology:** Children research and draw the things which we use to help us see things better such as binoculars, glasses, microscope, magnifying glass, telescope and so on.



Lesson 1 Investigating	Light (1) Working Scientifically
Draw and label four different things which	C Answer <b>Yes</b> or <b>No</b>
create light.	Does the moon     make its own light?
	② Does light make heat?
	O Does light make shadows?
	4 Is there some light around at night?
	6 Can light shine around corners?
	6 Candight be treasured?
	use the picture to help you explain how light
	makes a shadow.
How do we know there is light?	makes a shadow.
light? Can you hear light?	makes a shadow.
light?  Can you hear light?  Can you smell light?	makes a shadow.
light?  Can you hear light?	makes a shadow.