



Light

Physical Sciences



Written for the Australian Curriculum: Science

Sienna Osborne | Randall Hall | Richard John

AUSTRALIAN CURRICULUM: SCIENCE

Strand:	Science Understanding
Sub-strand:	Physical Sciences
Descriptor:	Light and sound are produced by a range of sources and can be sensed

SCIENCE WORDS

Light, Earth, Sun, reflects, objects, light bulbs, animals, glow, sources

INFORMATION FOR PARENTS OR CAREGIVER

Helping your child learn to read is a rewarding and enjoyable experience for both you and your child. Here are some ways you can help your child with their reading.

BEFORE READING

- Introduce the book; read the title and look at the picture on the front cover. Ask what the book might be about.
- Ask your child if they know any sources of light and how we use them. Look through the book and talk about the pictures. Can they identify any of the sources of light?
- Refer to the science words. Discuss each word and its meaning. These words will appear in the book.

DURING READING

- At this level, your child should attempt to read their home reader on their own. There may be words they are unsure of. Encourage them to break these words down into their individual sounds, blending them from left to right.
- Stop your child on the pages where Suzie the Scientist appears. Discuss the science vocabulary and interesting information presented.

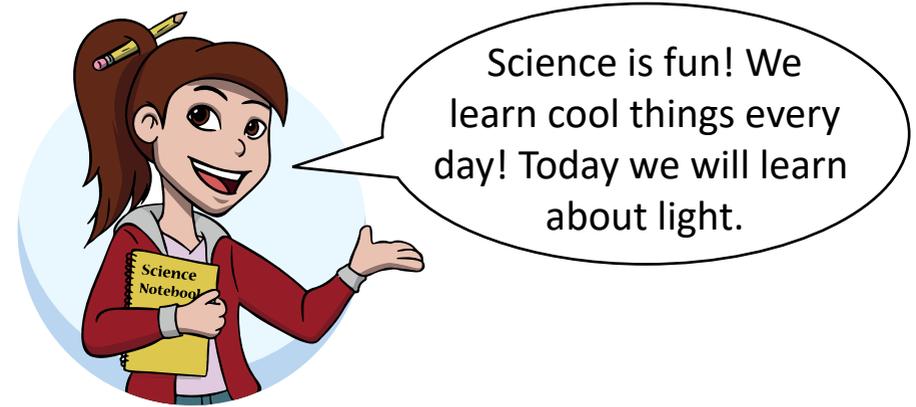
SCIENCE CONCEPTS IN THIS BOOK

From the early stages of the *Australian Curriculum: Science* students are encouraged to use their senses to observe the world around them. They quickly learn that our sense of sight comes from the ability of our eyes to detect **light**.

Light is a form of energy that is part of the overall electromagnetic spectrum that includes microwaves, radio waves and ultra-violet radiation. The human eye has evolved to detect a small portion of this overall spectrum—i.e. 'visible light', ranging from violet light to red light and all colours of the rainbow in between.

Light travels as a wave in a straight line at approximately 300 000 kilometres per second. It can be reflected (think of a mirror) and refracted (think of a rainbow). Light also comes from a variety of sources: some are natural, such as light from the sun; and some are man-made, such as the light from light bulbs.

This book looks at different sources of light and shows how important light is to us in everyday situations.



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We use light every day.

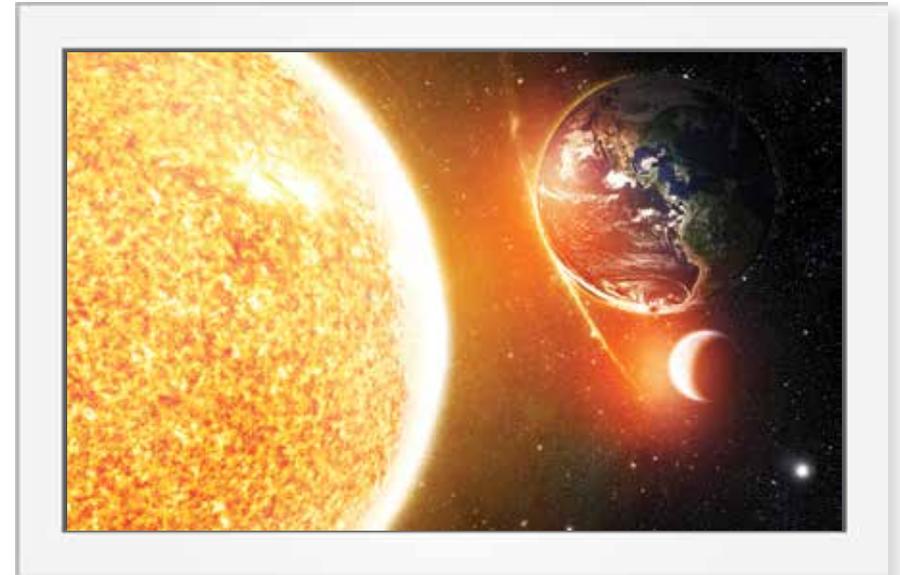
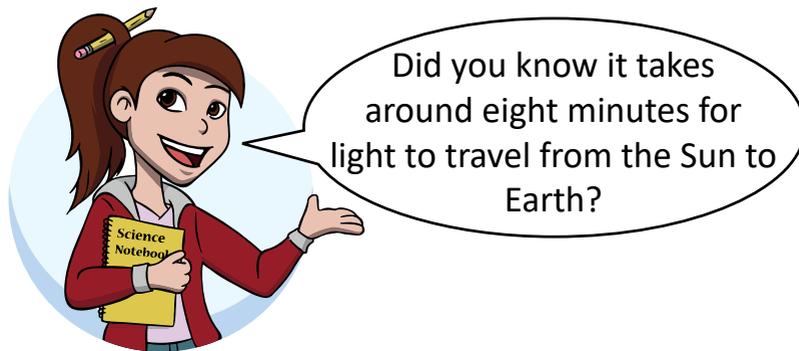
We need light to see
things around us.

Without light we can not
see.

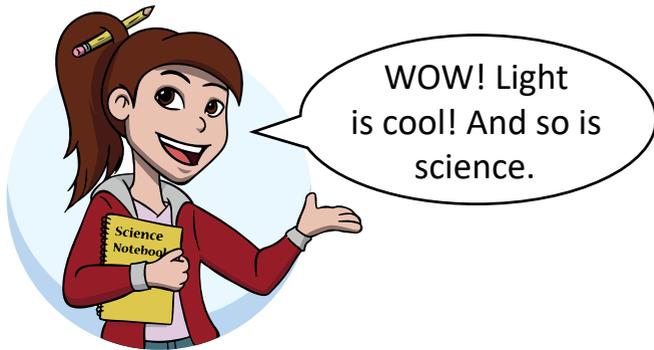


Most light on Earth comes from the Sun.

Light from the sun reflects off objects. We can see these objects with our eyes.



In the morning, light from
the sun wakes us up again.



AFTER READING

Ask your child what the book was about and encourage them to re-tell it in the order in which it appeared.

Discuss the following with your child to assist in understanding the content of the book:

- Can you name some sources of light?
- Why do you think it would be hard to set up camp at night without any light?
- Why do you think creatures that live in the deepest parts of the ocean would need to make their own light?
- Think about a time when you have been in the dark. How did it make you feel?

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Physical Sciences

In this book Suzie the Scientist helps us learn about light and how it enables us to see things. We identify the Sun as the major source of light on Earth and learn how light from the Sun reflects off objects to allow us to see them. Suzie also shows us different sources of light and how they can be used in our daily lives.

Australian Curriculum: All books in the 'Suzie the Scientist' series are written for the *Australian Curriculum: Science* and align directly to what children learn in the classroom. This book addresses the learning outcome "Light and sound are produced by a range of sources and can be sensed" from the Physical Sciences sub-strand.



WOW! Light is cool! And so is science.

PARENTS, READ ALONG WITH SUZIE!

*Throughout this book Suzie the Scientist tells us interesting scientific facts. Use these pages to encourage further interest and discussion about **light** with your child.*

Suggested Reading Level:



PM 11-13, Fountas & Pinnell G-H



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