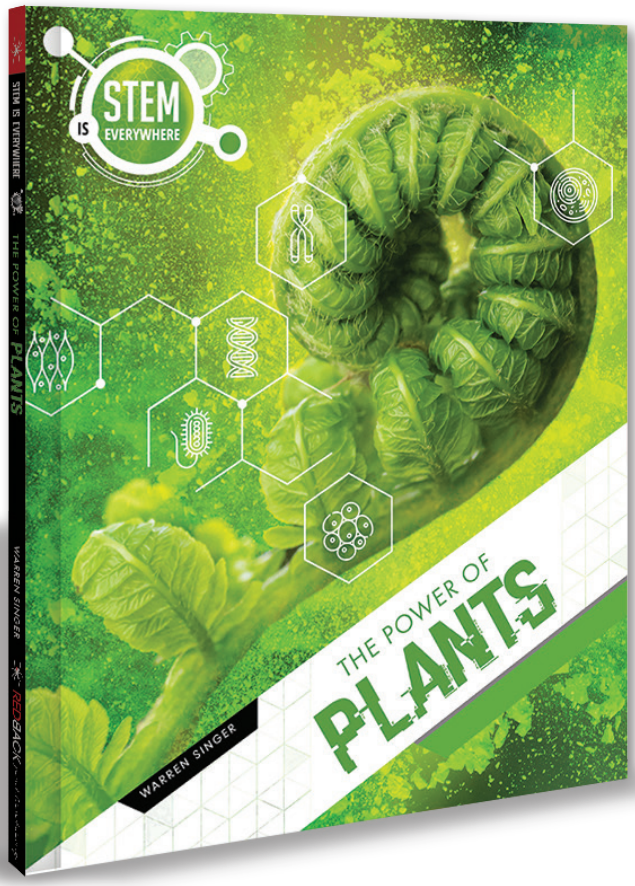
STEM IS EVERYWHERE

THE POWER OF PLANTS



SERIES	STEM is Everywhere
TITLE	The Power of Plants
AUTHOR	Warren Singer
PUBLISHER	Redback Publishing (Also online at REDeBOOKS.com.au)
PUBLICATION DATE	June 2026
ISBN	9781761402074
PRICE	$29.99
FORMAT	Hardback
EXTENT	32 pages
GENRE	Children's non-fiction, STEM
AGE SUITABILITY	9-12 years
READING AGE	9-12 years
THEMA CODE	YNNT, YPMP1

ABOUT THE BOOK

When you see an expanse of forest, or even just a lawn, did you know all that greenery is pumping out the oxygen you breathe and taking carbon out of the atmosphere? Find out how important plants are to the survival of life on Earth, and how they use chemistry and physics to perform scientific miracles.

ABOUT THE SERIES

STEM stands for science, technology, engineering and mathematics, and it is not just for scientists. The concepts we learn by studying STEM subjects can explain the existence of the whole Universe, including us and our daily lives. In this series, you will find out how easy STEM is to understand and discover how you can see it in action every second of every day.

CONTENTS

5 Types of Plants
Features of Plants
What Plant Parts Do
Flowers
Difficult Habitats
Photosynthesis
Carnivorous Plants
Marine Plants
Unusual Plants
These Aren't Plants
We Depend on Plants
Food Chains and Plants
Glossary and Index

KEY FEATURES

- Information is supported by relevant images and clear infographics
- Scientific facts and terminology are explained using age-appropriate language
- Structured breakdown of the types, features and purpose of plants that is easy to follow
- Content that relates the subject to everyday life and specific scenarios
- Examples of plants from different environments and biomes
- Index and glossary of new words

CLASSROOM DISCUSSION IDEAS

DEPENDENCE ON PLANTS

What would happen if all the plants on Earth suddenly vanished? Discuss the impacts this would have on food, medicine, oxygen, the atmosphere, economics and wildlife. How reliant is our society on plants?

PLANTS AND ANIMALS

Discuss the relationship between plants and animals. How do plants contribute to the survival of animals? How do animals contribute to the survival of plants? Think of specific examples of animals that rely on a specific kind of plant, or plants that rely on a specific kind of animal.

CLASSROOM ACTIVITIES

BE A JUNIOR BOTANIST

Aim of This Activity

- To be able to classify and identify plants based on their physical features.

Description of Activity

1. Students are to go outside and observe one plant.
2. Using the table on page 11 of 'The Power of Plants' by Warren Singer, they are to make notes on the features and parts of their chosen plant.
3. Based on their findings, students are to determine which of the five plant types their chosen plant falls into.

PARTS OF A PLANT

Aims of This Activity

- To be able to label and identify the different parts of a plant.
- To understand the purpose and function of the different parts of a plant.

Description of Activity

1. On a blank page, students are to draw a diagram of a plant with the following features:
   - Roots
   - Stem
   - Leaves
   - Flower
3. Label each of these sections and write a sentence about their function.

TRACKING THE FOOD CHAIN

Aim of This Activity

- To understand the significance of plants in the food chain.

Description of Activity

1. Choose a plant to start your food chain and draw a simple diagram of it.
2. Draw a living thing that might eat the plant and draw an arrow between them.
3. Continue the food chain with up to six images.

e.g. daisy -> grasshopper -> bird -> fox -> bear -> earthworm -> daisy

AUSTRALIAN CURRICULUM

YEAR 2

DESIGN AND TECHNOLOGY (AC9TDE2K03) - identifying which plants and animals can provide food or materials for clothing and shelter. For example, looking at a range of items and sorting them according to plant or animal source.

YEAR 3

SCIENCE (AC9S3U01) - compare characteristics of living and non-living things and examine the differences between the life cycles of plants and animals.

ALL TITLES IN THE REDBACK PUBLISHING SERIES
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