

Suggested Teaching and Learning

Text Type: Non-Fiction **Genre:** Description **Suggested Reading Recovery Level:** 5 **Word Count:** 83

ACARA reference

Learning Areas: English; Humanities and Social Sciences **General Capabilities:** Literacy; Ethical Understanding

Cross Curriculum Priorities: Sustainability

Teaching and Discussion Points

Before reading - activate prior knowledge and set the purpose for reading.

- Read the title and identify the sugar cane farm on the cover. Tell students that plants need sun, water and carbon to grow.
- Return to earlier texts particularly *Burning carbon* and remind students that carbon is in the air in the form of gas.
- Look at the holes in the leaves. Ensure students know the holes are so small we cannot see them.
- Locate novel vocabulary such as sugar cane, leaves, roots and holes and have students rehearse these.

During reading - support students to read the text independently.

 Prompt for strategic activity as students read and problem solve. Reinforce and support behaviours such as stopping, repeating, re-reading, searching the picture or sounding out.

After reading - comprehension conversation and word work.

- Ask students to recall the things the sugar cane needs in order to grow. Make
 a list of other plants that need water, sun and carbon to grow such as trees,
 flowers and grass.
- Extend meaning through writing and have students draw pictures of plants including leaves and roots. Label where the carbon is.

Vocabulary: cane, carbon, electricity, farm, grow, holes, leaves, need, plants, roots, sugar, water

High Frequency Words: at, here, look, in, is, on, our, see, the, to, we, you,

Word Study

- Locate the words plant and plants. Write each word out and notice the s on the
 end and how it changes the word. Locate other words in the text such as farm,
 grow and look and add s.
- grow and look and add s.
 Locate the word grow. Notice the beginning gr blend. Write other words that start with the same blend, such as green, great and grub.

Links to National Literacy Progressions - Reading and Viewing

Phonic Knowledge and Word Recognition	Fluency	Understanding Texts
PKW4, PKW5	FIY2, FIY3	UnT4, UnT5

Carbon in the form of coal and other fossil fuels is burnt to give off the molecule carbon dioxide. Throughout this series we have referred to carbon dioxide as gas due to the complexity of both the science specific language and content.

Plants need CARBON

Our farm	2
Water and sun	6
Carbon	10
Where is the carbon?	12
Glossary	16



Our farm

Here is our farm.





Look at the sugar cane.
We **grow** sugar cane
on our farm.

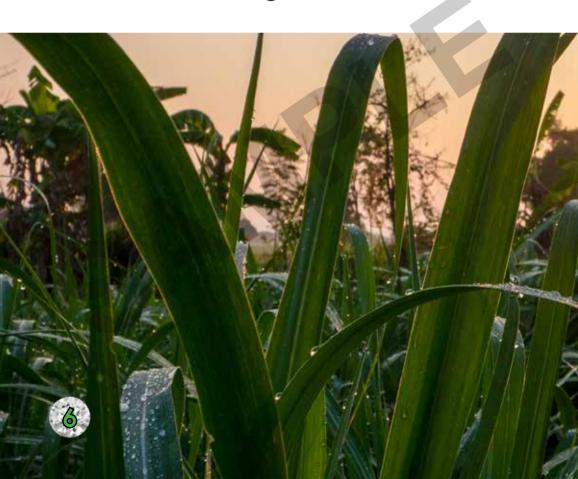




Water and sun

Look at the water.

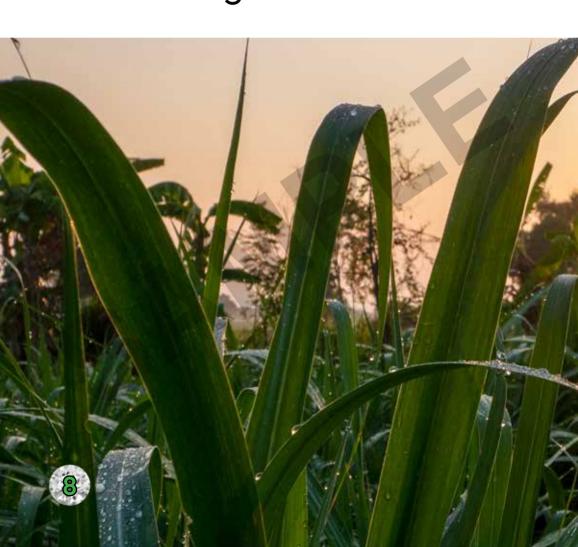
The sugar cane needs the water to grow.





Here is the sun.

The sugar cane needs
the sun to grow.



Knowledge Books and Software

PO Box 50 Sandgate, Queensland 4017 Australia p. +617-55680288 f. +617-55680277 email: sales@kbs.com.au

First Published 2020

ISBN 9781922370440

Text and editing: Carole Crimeen
Design and layout: Suzanne Fletcher

Publisher: Robert Watts

Series Information: Sustainability



Reproduction and Communication for educational purposes

Fair Go!

Make sure you record any copying of this book so we may get some benefit please.

The Australian Copyright Act 1968 (the Act) allows a maximum of one chapter or 10% of the pages of this work, whichever is the greater, to be reproduced and/or communicated by any educational institution for its educational purposed provided that the educational institution (or the body that administers it) has given a renumeration notice to the Copyright Agency Limited (CAL) under the Act. For details of the CAL licence for educational institutions contact:

Copyright Agency Limited

Level 15, 233 Castlereagh Street,

SYDNEY, NSW 2000

Telephone: +61293947600 Fax: +61293947601 Email: info@copyright.com.au

Reproduction and Communication for other purposes

Except as permitted under the Act (for example for the services of the Crown or in reliance on one of the fair dealing exceptions ie. a fair dealing for the purposes of research or study) no part of this book may be reproduced, stored in a retrieval system, communicated or transmitted in any form or by any means without prior written permission.

Credits

Photographs: Cover © electra, Margaret Jone Wollman; pp. 2-16 © Manutsawee Buapet; p. 1 © ChameleonsEye; p. 2 © Ian Bracegirdle; p. 4 © Tossapol; p. 6 © Sarawut Opkhonburi; p. 7 © PAKSAMON; p. 8 © Sarawut Opkhonburi; p. 9 © BBPPHOTO; p. 10 © Matee Nuserm; p. 11 © Tridsanu Thopet, Trong Nguyen; p. 12 © Tridsanu Thopet; p. 13 © Cornel Constantin; p. 14 © TORWAISTUDIO; p. 16 © lovelyday12, Matee Nuserm/Shutterstock. Back Cover © Margaret Jone Wollman, psamtik/Shutterstock.

Plants need CARBON

Plants need carbon is a simple informational text that attempts to describe the importance of carbon dioxide in plant survival and growth. Using the context of a sugar cane farm the text illustrates the importance of the combination of sunlight, water and carbon (dioxide) for plant growth.

The Authors

Carole and Suzanne are sisters and educators.

Carole has over 30 years teaching experience. The last 15 years have been spent specialising in early literacy acquisition, training teachers and designing and delivering early reading and writing interventions. Carole has a Master of Education and a Master of Teaching English to Speakers of Other Languages.

Suzanne has 15 years teaching experience 13 of which have been spent teaching ESL students. She has a Master of Education (IT in Education) and a Bachelor of Vocational Education and Training.



Sustainability

