

Plants need **CARBON**

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*.
- 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.

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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.





water

Here is the sun.

The sugar cane needs
the sun to grow.



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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.

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