

Too much **CARBON**

SAMPLE

Suggested Teaching and Learning

Text Type: Non-Fiction

Genre: Description

Suggested Reading Recovery Level: 5

Word Count: 103

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 draw attention to the smoke on the cover. Use developmentally appropriate language to discuss the pollution and damage to the environment that it causes.
- Return to earlier texts particularly *Plants need carbon* and *Burning carbon* to remind students that plants need carbon to grow and that carbon can be in the air in the form of gas.
- Tell students that even though carbon is important, there is too much in the air.

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.

- Discuss the problems caused by too much carbon that are illustrated in the text - bushfires and air pollution.
- Discuss how planting trees can help the environment.

Vocabulary: burn, carbon, coal, grass, grow, helping, oil, planting, stay, trees, world

High Frequency Words: a, and, for, good, here, in, is, look, make, need, not, our, the, this, to, too, us, we, will

Word Study

- Locate the words *planting* and *helping*. Make each with magnetic letters. Take the *ing* away, read and notice how the word changes. Locate *look*, *stay* and *burn*. Add *ing* to each and notice how the word changes.
- Use magnetic letters to make the word *oil*. Add *b* to the beginning and read the new word. Repeat with other letters such as *s*, *c* and *t*. Hear the rhyme and notice the pattern. Repeat with other words from the text, such as *us* and *in*.

Links to National Literacy Progressions - Reading and Viewing

| Phonological Awareness | Phonic Knowledge and Word Recognition | Fluency | Understanding Texts |
|------------------------|---------------------------------------|------------|---------------------|
| PhA5 | 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.

Too much **CARBON**

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Carbon

This is **coal**.

Carbon is in the coal.



This is **oil**.

Carbon is in the oil.



The coal and the oil will burn
and make a gas.

SAMPLE



The gas is here ...

and here ...

and here.





Plants need carbon

Look at the trees.

The trees need
the carbon to grow.



Knowledge Books and Software

PO Box 50 Sandgate, Queensland 4017 Australia

p. +617-55680288 f. +617-55680277 email: sales@kbs.com.au

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Too much carbon is a simple informational text that draws attention to the dangers to the environment caused by excess carbon emissions. Using carbon, introduced in earlier texts, to represent carbon dioxide, the text attempts to describe the phenomena of global warming. The text concludes positively with what people can do to help.

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.

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