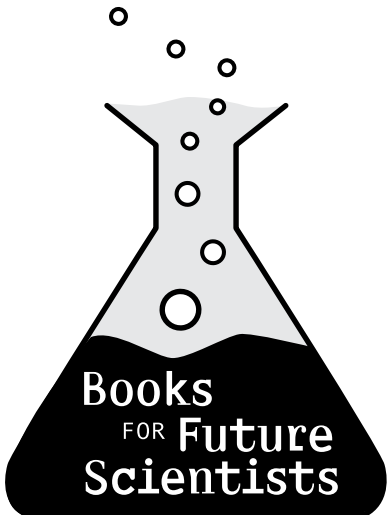

These notes are designed so that you can use them as a guide for teaching or alternatively you can give them to a group of students who will then complete the reading and activities independently or with a partner.

Each set of notes has:

- An activity grid
- The science content and knowledge
- The science vocabulary in the glossary
- The answers to the quiz
- Questions for each chapter to guide reading

There is more than one way to read this book. Here are four examples. No one way is better than the another. You may also like to use the graphic organizers to help guide your reading.

- You can skim through the pages of the entire book, stopping at and studying the diagrams. Then check the glossary to clarify your understanding of any unknown science-related words. This will give you the background science information before you read the story. Then go back and read the story.

- You can read the blurb on the back cover, then jump straight into reading Chapter 1. Read the story as if there were no diagrams or bolded words at all. When you have finished, go back and study the diagrams and glossary words to add to your knowledge.

- You can do a combination of both the above. Read the back cover blurb to find out the storyline. Study the initial diagrams. Then read the book, stopping to consolidate your understanding of the science concepts. Check out the bolded words in the glossary if you are unsure of their meaning.

- You can read the book chapter by chapter, stopping and discussing the story and the science as you go.

When you have finished reading, take the test. You should get six out of six. If you aren't sure of an answer, follow the quiz clues at the end of the book.

Now do one or both of the activities. When you have finished these, complete the black line master activities.

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Book Title	Book Activity 1	Book Activity 2	Graphic Organiser 1	Graphic Organiser 2	Black Line Master 1	Black Line Master 2	Black Line Master 3
Cassandra's Clever Dad	Values Honesty	Science Inquiry	Comprehension Literal	Science Inquiry	Literacy Vocabulary	Multiple Intelligence Logical	Literacy Inquiry
Bushfire	Comprehension Inferential	Science Vocabulary	Literacy Vocabulary	Science Inquiry	Comprehension Literal	Multiple Intelligence Linguistic	Values Cooperation & Teamwork
Magnets Malwinski	Values Tolerance	Science Vocabulary	Comprehension Literal	Science Inquiry	Literacy Vocabulary	Multiple Intelligence Linguistic	Comprehension Inferential
Alexander Becomes and Astronaut	Values Responsibility	Science Inquiry	Comprehension Literal	Science Inquiry	Science Vocabulary	Multiple Intelligence Linguistic	Comprehension Inferential
Battered to Bits	Comprehension Literal	Science Experiment	Literacy Vocabulary	Science Inquiry	Comprehension Inferential	Multiple Intelligence Logical	Values Respect
The Devious Desert Racer	Comprehension Inferential	Science Inquiry	Multiple Intelligence Logical	Science Inquiry	Literacy Vocabulary	Comprehension Inferential	Values Respect, Care, Integrity, Responsibility
The Wild Ride	Literacy Vocabulary	Science Inquiry	Comprehension Literal	Science Inquiry	Comprehension Literal	Multiple Intelligence Linguistic	Values Responsibility
Day of Fire	Comprehension Inferential	Science Inquiry	Comprehension Literal	Science Inquiry	Literacy Vocabulary	Multiple Intelligence Linguistic	Values Priorities
Isabella Remington – Basketball Star	Comprehension Inferential	Science Experiment	Comprehension Literal	Science Inquiry	Literacy Vocabulary	Multiple Intelligence Bodily Kinaesthetic	Values Doing Your Best
Hurricane Tamer	Comprehension Inferential	Science Numbers	Values Doing Your Best	Science Inquiry	Literacy Vocabulary	Multiple Intelligence Musical	Comprehension Literal
Trouble on the Track	Literacy Vocabulary	Science Numbers	Comprehension Literal	Science Inquiry	Comprehension Inferential	Multiple Intelligence Naturalist	Values Relationships
Beyond the Thicket	Comprehension Literal	Science Inquiry	Comprehension Inferential	Science Inquiry	Science Vocabulary	Multiple Intelligence Visual Spatial	Values Compassion & Fair Go

Trouble on the Track

Science Content and Knowledge:
Physical Science: Energy
Level: Middle
Genre: Adventure
Reading age: 10.4 years

Science Vocabulary

atmosphere	oxygen
calories	photosynthesis
chemical energy	potential energy
conserve	principle of conservation
energy	recycled
evaporate	renewable energy
fossil fuels	solar energy
gravity	sonar
hydroelectricity	ultraviolet rays
kinetic energy	water vapour
nutrients	

Quiz Answers

Question 1:

Renewable energy: biomass, sun, biogas, wind, water

Non-renewable energy: coal, natural gas, oil

Question 2:

Food

Question 3:

Energy relating to motion

Question 4:

Solar energy

Question 5:

Public transport, insulation, using long-life light bulbs, turning electrical appliances off when not in use

Question 6:

Transport, industries and home businesses

Study Guide

Chapter 1 – Energy Everywhere

Read Chapter 1 to find out who the main characters are, what they are like and their relationship with each other.

Chapter 2 – Snake Eyes

Think about all the things that could go wrong on a track. What things would you have to be careful of? The title of chapter 2 is *Snake Eyes*. Using the title as a clue, what do you think could happen in this chapter? Make your predictions, then read the book to find out if you were right.

Chapter 3 – Rushing Water

Think about how Chapter 2 ended. What was Sophie doing? Have you ever had a dream that almost felt like it was real? Read Chapter 3 to find out what happens to Sophie.

Chapter 4 – Shooting the Breeze

In Chapter 4, Alex, Ben, Sophie, and Uncle Terry continue on their track. How do you think Sophie is feeling now? Using the information from the previous chapter predict what might happen. Read the chapter and find out if you were right.

Chapter 5 – Secret Hideout

Think about all the troubles the characters have had on the track. How do you think the story will end?

Trouble on the Track

Name _____

• Comprehension – Literal

As you read the story, confirm the following True/False statements. Tick the correct columns.

Statement	True	False
Sophie was Ben's sister.		
Uncle Terry was a scientist.		
Alex ran away from the snake.		
The river flooded the tents.		
Ben got sunburnt.		
The only food that didn't get washed away was apple and ice-cream.		
Sophie got hit by the toy plane.		
On the way home they met a killer.		
They smelt the roast pork cooking across the yard.		
Sophie no longer hated science.		

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Trouble on the Track

Name _____

- Science Inquiry

As you read the story, jot down notes on the following science topics.

Renewable and non-renewable resources	
Solar energy	
Photosynthesis	
Water cycle	
Hydroelectricity	
Wind	

Trouble on the Track

Name _____

- Comprehension – Inferential

After reading the story, answer the following questions.

Did you have any sympathy for Sophie when she had to go camping and didn't want to go? Why?

How did you feel when things kept going wrong for Sophie? Describe your feelings when you read each incident.

Would you recommend the story to a classmate? Explain why.

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Trouble on the Track

Name _____

• Naturalist Intelligence

Think about the various renewable resources on Earth and about the energy they provide. Draw one renewable energy resource. Write a short paragraph explaining the energy source you have drawn and how it provides energy.

Trouble on the Track

Name _____

- Relationships

Think about the relationship you have with a brother, sister, other family members or a friend. Complete the questions below.

Name of selected person:

How do you get along with this person?

_____

_____

Do you have disagreements with this person sometimes? About what?

_____

_____

Do you protect or get protected by your selected person? Give an example.

_____

_____

What are the good things about your selected person?

_____

_____

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