

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.

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
Crash Landing	Comprehension Literal	Science Experiment	Comprehension Inferential	Science Inquiry	Literacy Vocabulary	Multiple Intelligence Visual Spatial	Values Responsibility
Futuristic Park	Comprehension Inferential	Science Experiment	Comprehension Literal	Science Inquiry	Literacy Vocabulary	Multiple Intelligence Visual Spatial	Values Leadership
Incredible Amazon Adventure	Comprehension Inferential	Science Inquiry	Comprehension Literal	Science Inquiry	Comprehension Inferential	Multiple Intelligence Musical	Values Responsibility
The Spooky Man Upstairs	Comprehension Inferential	Science Experiment	Comprehension Literal	Science Inquiry	Literacy Vocabulary	Multiple Intelligence Bodily Kinaesthetic	Values Respect
The Miners and the Morkorth	Comprehension Inferential	Science Inquiry	Comprehension Literal	Science Inquiry	Literacy Vocabulary	Multiple Intelligence Linguistic	Values Responsibility
The Final Wave Goodbye	Multiple Intelligence Interpersonal	Science Experiment	Comprehension Inferential	Science Inquiry	Comprehension Inferential	Comprehension Literal	Values Respect for Others
Secrets of the Sky	Comprehension Inferential	Science Inquiry	Comprehension Literal	Science Inquiry	Literacy Vocabulary	Multiple Intelligence Logical	Values Rights of Others
Fight or Flight	Comprehension Inferential	Science Inquiry	Literacy Vocabulary	Science Inquiry	Comprehension Literal	Multiple Intelligence Visual Spatial	Values Doing Your Best
Dramatic Discovery	Comprehension Inferential	Science History	Comprehension Literal	Science Inquiry	Literacy Vocabulary	Multiple Intelligence Linguistic	Values Tolerance
Beat the Buzzer	Comprehension Inferential	Science Inquiry	Comprehension Literal	Science Inquiry	Science Vocabulary	Multiple Intelligence Interpersonal	Values Honesty
Deadly Space Race	Comprehension Literal	Science Inquiry	Literacy Vocabulary	Science Inquiry	Comprehension Inferential	Multiple Intelligence Visual Spatial	Values Doing Your Best
Saving the Sun	Values Integrity & Trustworthiness	Science Experiment	Comprehension Inferential	Science Inquiry	Comprehension Literal	Multiple Intelligence Logical	Comprehension Inferential

Crash Landing

Science Content and Knowledge:

Physical Science: Pulleys and Levers

Level: Upper

Genre: Action Adventure

Reading age: 10.5 years

Science Vocabulary

brake	moveable pulley
energy	pulley
exert	screws
fixed pulley	simple machines
force	wedges
fulcrum	weight
joules	wheel and axle
levers	winch
load	work

Quiz Answers

Question 1:

Lever, inclined plane, wheel and axle, pulley, wedge and screw

Question 2:

To make everyday work easier

Question 3:

Fixed pulley and moveable pulley

Question 4:

Makes it easy to move things from one place to another

Question 5:

The pivot on which a lever is balanced

Question 6:

Joules

Study Guide

Chapter 1 – A Wild Ride

Chapter 1 introduces the main characters in the story. Read the chapter to find out who they are. Using the cover illustration as a clue, think about what could happen to the characters in this chapter?

Chapter 2 – An Isolated Place

Think about the title of the chapter – An Isolated Place. How would you feel to be isolated and alone? How do you think the characters are feeling? How do you think they will get on isolated on the island? Predict ways in which they could survive.

Chapter 3 – Simple is Best

Why is it important for the children to get their mother to shade and shelter? Make a list of ways the children could safely and comfortably move their mother.

Chapter 4 – Cliff Climb

Read Chapter 4 to find out what sort of solutions the children will come up with to sort out their problem of climbing the cliff. If you know of a solution jot it down. Read the chapter to find out if your prediction was correct.

Chapter 5 – Red Alert

How do you think the story will end? Will the characters be rescued? How will they alert anyone looking for them?

Graphic Organizer 1– Literacy

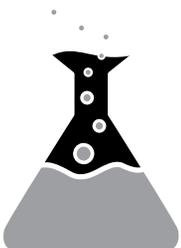
Crash Landing

Name _____

- Comprehension – Inferential

Use the title of the chapters to predict what will happen. Once you have read each chapter revise your prediction.

	What I predict will happen in this chapter	What happened in this chapter
A Wild Ride		
An Isolated Place		
Simple Is Best		
Cliff Climb		
Red Alert		



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Graphic Organizer 2 – Science

Crash Landing

Name _____

- Science Inquiry

As you read and learn about simple machines, jot down or draw examples of where you might find simple machines in everyday life.

Lever	
Inclined plane	
Wheel and Axle	
Pulley	
Wedge	
Screw	



Crash Landing

Name _____

- Vocabulary

Most English words originated from other languages. Root words are family words. Here are some root words.

- Mech (Greek root word) – meaning: machine
eg: The boy built a simple machine.
- Cline (Latin root word) – meaning: lean over
eg: The air strip had a slight incline.

Make a list of words using the Greek or Latin root word below.

Root Word	Meaning	Example
mach	machine	
cline	lean over	
mar	sea	
aero	air	
struct	build	



Crash Landing

Name _____

- Visual Spatial Intelligence

Draw a map of the island that Matthew and his family crashed on. Use the clues from the book to help you. Draw a key on your map.



Crash Landing

Name _____

- Responsibility

Imagine you crashed on an island. You survived along with two other people. One of the survivors is badly injured and you are unable to move them. There is a severe storm coming and the only shelter is on the other side of the island. It is a difficult hike to get there and you must leave immediately to avoid being caught up in the storm.

Do you stay with the injured survivor or save yourself and hike to the shelter? Make a list of pros and cons on whether you should stay with the injured person.

PROS

CONS

After analysing the pros and cons what would you do? Explain your answer.

