
AN E-BOOK FROM READY-ED PUBLICATIONS

THE OUR ENVIRONMENT SERIES

For 9+ Year Olds

**BOOK THREE -
WASTE & ENERGY**

By Sharon Szczecinski



Written by Sharon Szczecinski. Illustrated by Melinda Parker. © Ready-Ed Publications - 2003.
Published by Ready-Ed Publications (2003) P.O. Box 276 Greenwood W.A. 6024
Email: info@readyed.com.au Website: www.readyed.com.au

COPYRIGHT NOTICE

Permission is granted for the purchaser to photocopy sufficient copies for non-commercial educational purposes. However, this permission is not transferable and applies only to the purchasing individual or institution.

ISBN 1 86397 538 1

Contents

Links to Outcome Statements	4
Teachers' Notes: Waste	7
Waste - What a Load of Rubbish!	8
So What is Waste?	9
Waste Not!	10
What About Lunch?	11
The Perfect Lunchbox	12
What's Wrong with Waste Anyway?	13
Waste Watching	14
Wheelie Waste to Where?	15
Packaging Gone Mad!	16
Rethinking Recycling	17
Bagging a Bargain	18
Waste at School	19
Getting Your Hands Dirty!	20
Waste Options	21
A Report Card for Waste at School	22
Waste Management - The Actions	23
Waste Management - The Reality	24
Waste in the World	25
Who is Looking After the World's Waste?	26
Teachers' Notes: Energy	27
What is Energy?	28
Energy Through the Ages	29
Life Before Electricity	30
Renewable and Non-Renewable Energy Sources	31
Using Energy Wisely	32
Energetic Appliances	33
Food Energy	34
Solar Energy	35
Hydro And Tidal Energy	36
The Snowy Mountains: Not Just for Skiing	37
The Snowy Mountains: Changing Cultures	38
The Snowy Mountains: Water to Energy	39
Energy Review	40
Energy and Schools	41
The Cost of Energy	42
Energy Options	43
A Report Card for Energy Conservation At School	44
Energy Conservation - The Actions	45
Energy Conservation - The Reality	46
Energy in the World	47
Useful Internet Resources	48

Name: _____



What About Lunch?

Examine the lunch boxes in your classroom. Estimate how much waste will be produced by each lunch. An example has been completed for you.

Lunch A



Lunch B



Lunch	Item	Grams of waste
A	<i>Throwaway bag</i>	<i>1 gram</i>
B		

1. Which lunch produced less waste? _____
2. Why did one lunch produce more waste than the other? _____

3. How could the biggest waste producing lunch be changed to make less waste? _____

4. Which lunch would students prefer? Why? _____

Name: _____



Wheelie Waste to Where?

What actually happens to the waste? How is it treated? Is there a difference between waste from households or waste from shops and industries? What about stuff that can be recycled? What about waste from toilets? Where does it all go?

- Write a story to explain a day in the life of a piece of rubbish. Where do you go, what happens to you? Be as creative as you can.

This web site might help you: www.epa.gov/kids/garbage.htm

A DAY IN THE LIFE OF A PIECE OF RUBBISH

Don't waste paper! Continue on the back of this sheet.

Name: _____



Who is Looking After the World's Waste?

Recycling is something that we can all do on an individual level, however, many of the world's waste concerns need a lot of people to help. A non-government organisation (NGO) is an organisation that is dedicated to a particular issue. For example, the Red Cross is a non-government organisation that helps people in war situations, as part of their role. There are many organisations that look after the environment. Greenpeace, for example, is a worldwide organisation that is dedicated to environmental activities.

- Check out the organisations listed below and be sure to visit the listed web sites. Find out what the organisation does to reduce waste in Australia or the world. Add two more organisations of your own.

Organisation	What they do
Planet Ark www.planetark.org	
Clean Up Australia www.cleanup.com.au	
Keep Australia Beautiful Council www.keeppaustraliabeautiful.org.au	
Can Smart - Steel Can Recycling www.cansmart.org	


Name: _____



Life Before Electricity

Have you ever been camping before? If you slept in a tent you might have noticed that the night seemed a lot darker. Often, when people go camping they take with them gas camping lights and torches. Tents don't have a switch to turn on the lights. Imagine what it must have been like before people had electricity in their homes. How would this have affected the lives of people?

- Using old magazines, shop catalogues and newspapers cut out at least 10 products that use electricity. Paste them into the space below. (If you don't have any magazines draw 10 pictures yourself). Write down what would have been used before electricity came along. One has been completed for you.

Products that use electricity	What would we use without electricity?
	<p>pencil, paper, pads, files, pen, ink.</p>