
AN E-BOOK FROM READY-ED PUBLICATIONS

THE OUR ENVIRONMENT SERIES

For 9+ Year Olds

BOOK TWO
WATER & AIR

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 537 3

Contents

Links to Outcome Statements	4
Teachers' Notes: Water	7
Water - The Essential Fluid!	8
Water Bodies in Australia	9
Water Bodies in The World: Oceans	10
Water Bodies in The World: Seas	11
What Do We Use Water For?	12
Water Issues - 1: Salinity	13
Water Issues - 2: Stormwater	14
Water Issues - 3: Fishing For the Future	15
Oceans of Discovery	16
Biodiversity of the Water	17
Magic Marine Parks - 1: The Great Barrier Reef	18
Magic Marine Parks - 2: Parks in Australia	19
Looking After Our Reefs	20
Natural Disasters on the Water	21
Using Water at School	22
Options For the Water Environment	23
A Report Card: Water Use at School	24
Managing Water - 1	25
Managing Water - 2	26
Water - Shout All About It!	27
Water in the Local Area	28
Water Pollution in the World	29
Teachers' Notes: Air	30
Our Air and the Environment	31
Pollution of the Air	32
Alternatives to Fossil Fuels	33
The Ozone Layer and Us - 1	34
The Ozone Layer and Us - 2	35
Smog - 1	36
Smog - 2	37
The Greenhouse Effect	38
The Air on the Web	39
Natural Disasters in the Air - 1	40
Natural Disasters in the Air - 2	41
The Air Around Us - Weather and Climate	42
Air At School	43
The Ozone Layer at School	44
Options for the Air	45
A Report Card for the Air	46
Managing Air - 1	47
Managing Air - 2	48
Air Pollution in the Local Area	49
Changing Habits	50
Useful Internet Resources	51

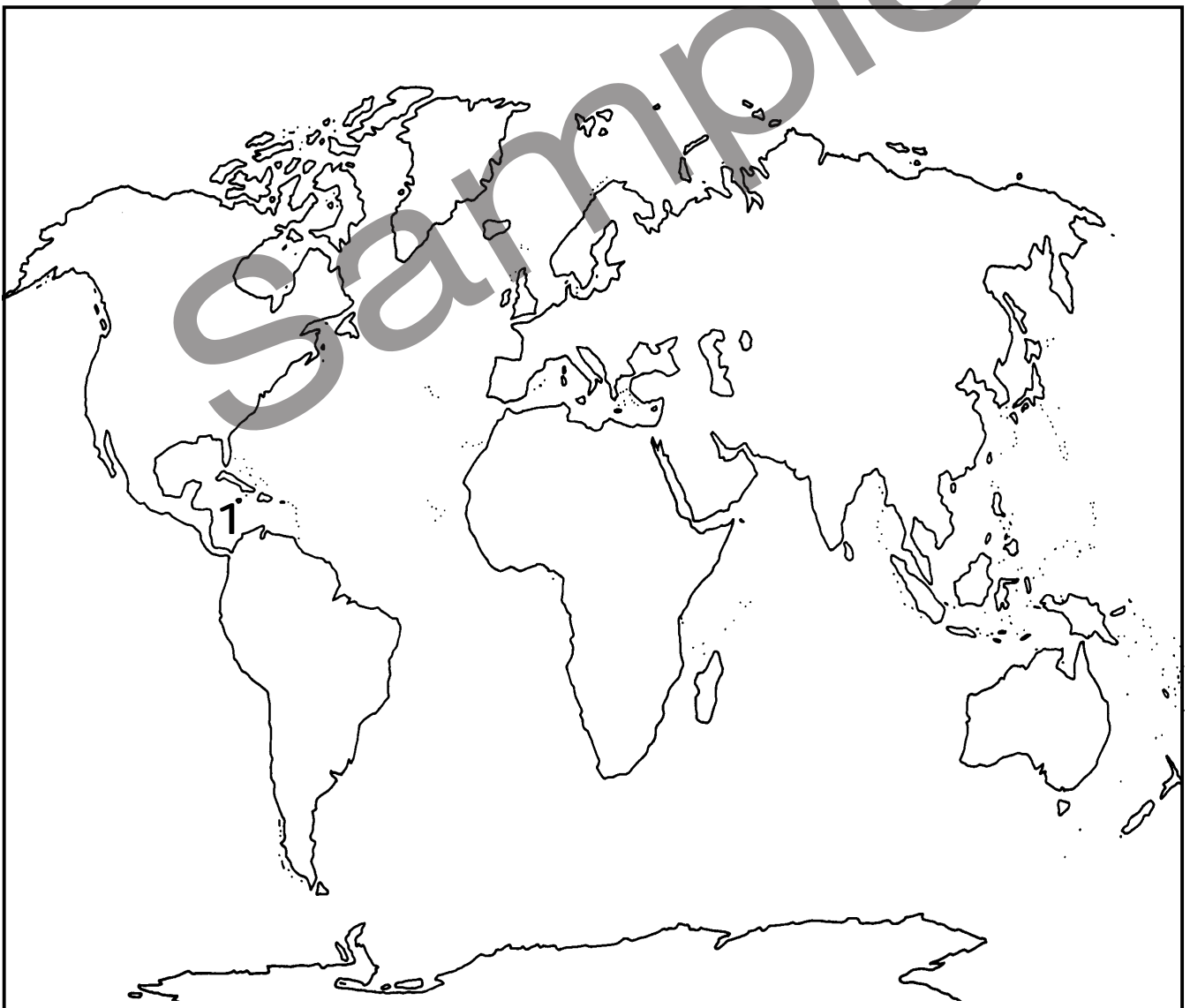
Name: _____

Water Bodies in the World: Seas

As well as oceans there are many seas in the world.

Use an atlas to find the seas listed and label them on the map below. The first one has been done for you.

- | | |
|----------------------------|-------------------------|
| <u> 1 </u> Caribbean Sea | _____ Mediterranean Sea |
| _____ Caspian Sea | _____ South China Sea |
| _____ Black Sea | _____ Sea of Japan |
| _____ Phillippine Sea | _____ Arabian Sea |
| _____ Red Sea | _____ Barents Sea |
| _____ Bering Sea | _____ Tasman Sea |
| _____ Coral Sea | _____ Yellow Sea |
| _____ Norwegian Sea | _____ Greenland Sea |
| _____ Weddell Sea | _____ Ross Sea |





Oceans Of Discovery

You've probably heard of Captain Cook and his ship the *Endeavour*. This voyage of discovery led to the settling of Australia and eventually the country we know today. Before Captain Cook there were many other European explorers who sailed near Australia or landed on parts of it. Some of these explorers were blown off course and got lost; others were looking for the great southern land that they thought must exist; while others were looking for faster ways to get to the places they wanted to trade with. Some other ships included the *Duyfken*, the *Batavia*, the *Gilt Dragon*, the *Recherche* and the *Esperance*.

- Use the Internet or your library to learn more about the ships that explored near Australia. Choose one ship and then write up a ship's log for your journey. Make sure you include all of the information below.

This site is a good starting point: www.mm.wa.gov.au/Museum/toc.html

Ship's Log

1. When did the ship explore near Australia?

2. Who was the ship's captain?

3. What was the reason for the ship's journey?

4. Which part of Australia's coast did the ship sail near; did anyone step onto Australian soil?

5. Did the captain leave behind any mementoes of the trip?

6. What dangers would people on board the ship face?



Name: _____



Water Pollution in the World

Water pollution is a concern throughout the world. Oil spills, discharge of wastewater, pesticides from farms and many other human activities have caused waterways such as rivers, oceans and seas to become polluted. The Ganges River in India, for example, is considered by many people to be a sacred and holy river. Unfortunately for many people who bathe in it, the pollution is so bad that they are liable to become sick and possibly even die.

- Find another example of water pollution in the world. Describe it below.

- Find an example of pristine or unspoilt water in the world. Draw or paste a picture of this place (use cut out pictures if you want) and describe it below.



- Explain in one sentence why the places are so different.



Alternatives to Fossil Fuels

Fossil fuels are materials like coal that we burn to produce energy. Energy is very important in our modern day-to-day lives and it would be hard for us to give up things like CD players, television and play stations! Unfortunately, the burning of fossil fuels also results in lots of air pollution. Fossil fuels are also very limited and we will eventually run out of them.

Scientists and researchers have been working on finding out how energy can be produced without burning fossil fuels. Some people have suggested *solar energy* or energy from the sun; other people think that wind power would be a good alternative. *Nuclear power* or power from uranium has also been tried and some countries use this. *Hydroelectricity* involves using water to produce energy and *tidal power* is harnessing the oceans' tides.

- Research these alternative power sources. Which alternative do you think would be best. Why? Write a letter to the newspaper putting forward your case for one of the types of energy.

Sample

- As an extension activity complete some research into your chosen energy.