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ABSTRACT

This resource includes units of work developed by different practitioners that integrate the teaching of literacy with the teaching of numeracy in adult basic education. It is designed to provide models of integration for teachers to develop similar resources on different contexts or themes. The units follow slightly different formats. Unit lengths vary from a few sessions to the basis of a semester's work. The way in which literacy and numeracy are integrated also varies; in some units there are literacy and numeracy activities on the same theme or context, and in others activities are more closely woven. The nine sections are on these topics: water, gardens, reasonable force, aboriginal land, work, women in Australia, tourist spots, juggling pool, and banking. Components of each section include the following: learning outcomes; topics; resources; future directions; teacher notes that correlate in a column format whether the activity is primarily literacy or numeracy or both, activities, resources, and assessment; and handouts. Units list additional resources that can be used to extend the students' understanding of particular mathematical skills. The activities have been written for students with skill levels across the whole spectrum of students involved in adult basic education classes, from beginning reader/writers to more advanced level students. (Contains 62 references.) (YLB)

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NUMEROUS CONNECTIONS





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INTRODUCTION

The concept of integrating the teaching of literacy with the teaching of numeracy in Adult Basic Education is not new. Good practice in Adult Basic Education demands that skills be taught in their appropriate context and good teachers have always integrated the two, to a greater or lesser degree.

However, with the emergence of accredited curricula and workplace basic education and increasing requirements for accountability, practitioners have begun to examine the practice of integration and attempt to articulate the theories which underpin it.

Exploration of the concept is, however, in its infancy and the theories of learning which underpin these units of work are not, therefore, complete. Even definitions of the terms literacy and numeracy are constantly shifting so that an attempt at a definition of an integrated program is problematic. Such programs are, however, based on several assumptions:

Firstly, that literacy and numeracy must be taught in their appropriate context. It follows that many (but not all) areas of adult understanding and discussion involve an understanding of literacy and numeracy and the two are often interdependent.

Secondly, that the learning of numeracy cannot exist without an understanding of the language of numeracy. Allied to this is the notion that most adult numeracy tasks in the 'real world' involve problem solving in which language, literacy and numeracy are intertwined.

Thirdly, that if our practice is situated within a framework of critical pedagogy, then this must combine both literacy and numeracy. Chapman and Lee refer to mathematics as being "among the most powerful cultural technologies in whatever forum and mode it appears and it is difficult to imagine a critical literacy which does not take this into account."

The traditional technique-oriented maths curriculum has been presented as a set of objective truths to be learnt and not one which encourages a spirit of enquiry which a critical pedagogy demands. Mathematical propositions which are presented to us in the 'real world' and which require a critical response from us invariably require an integrated response.

About This Resource

The Units of Work included here have been developed by different practitioners. They are presented as a collection of examples of the various ways in which a number of experienced practitioners have interpreted the challenge. Thus, the units follow slightly different formats although, for ease of use of the resource, some attempt has been made to standardise this.

Chapman, A and Lee, A. (1994) "Rethinking Literacy & Numeracy" in An integrated Approach to Teaching Literacy and Numeracy, Sydney: Adult Literacy Information Office.



The resource has been developed to provide a series of models of integration for teachers to then develop similar resources on different contexts or themes.

The lengths of the units vary greatly. Some will cover only a few sessions whereas some may form the basis of a semester's work. The way in which literacy and numeracy are integrated also varies according to the possibilities of the context being explored. In some units they are simply literacy activities and numeracy activities on the same theme or context, and in some they are more closely woven.

This gives scope for different approaches to some of the practical difficulties involved in the integration of literacy and numeracy teaching.

One of the greatest of these lies with the differing expertise of the teachers involved. Developing an integrated program is less problematic if the teacher has expertise in both fields. However, most do not. The first column in the Teacher Notes in the units indicates whether the activity is primarily literacy, or numeracy or both. This allows for two teachers, with different expertise, to be working on the same unit if a number of the activities in that unit are separate literacy or numeracy activities. However, if it is difficult to separate the literacy from the numeracy in most of the activities in a particular unit, then the unit will best be taught by a teacher with expertise in both fields.

In the discussion surrounding integration of literacy and numeracy, concern is often expressed that numeracy will be the loser; that literacy teachers will skim over the teaching of important numeracy skills and that students in particular who wish to go on to further study will be ill served. For this reason, the units in "Numerous Connections" indicate, under the heading of Additional Activities, resources which can be used to extend the students' understanding of particular mathematical skills. There is an understanding that, at certain appropriate points, the theme being pursued will be put aside for direct teaching of numeracy skills where required.

The activities have been written for students with skill levels across the whole spectrum of students involved in adult basic education classes, from beginning reader/writers to more advanced level students. Teachers will need to determine which aspects of the units are appropriate for particular students or groups of students in their classes.

Finally, our thanks to the ABE teachers who have been responsible for developing this resource and to the Project Officers who have done a marvellous job of putting it together. We trust that it will go some way to meeting the needs of teachers faced with these new challenges in their teaching practice.

Pamela Osmond Project Manager



ACKNOWLEDGMENTS

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Mabo and other places

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Come and visit

Section 8: Juggling pool

From a new angle

Section 9: Banking

More for your money



SECTION 1 WATER

Water... can too much bring on a drought?



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LEARNING OUTCOMES

In the context of this study students will:

- gather information and mathematical data
- interact with others and in groups
- reflect on learning
- get information and mathematical data from texts
- present information and mathematical data in texts
- solve problems
- increase confidence and participation
- make choices.

TOPICS

Language/Literacy

- listening/questioning
- genre opinion writing
 - personal letters

Numeracy

- graphs and tables
- calculators

RESOURCES

- teacher notes 1
- handouts 1-9

to be supplied by teacher:

- additional newspaper articles, photos, headlines
- pamphlets on water conservation in the home
- pamphlets from Water Board
- · models of opinion writing
- models of formal and informal letters

FUTURE DIRECTIONS

- other utility accounts
- environmental issues such as logging, recycling, water pollution



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	Activities	Resources	Assessment
	Our water: what's the problem?		
Introduction	brainstorm issues and concerns about water quality and conservation	headlines and photo prompts	teacher observation of student
	read and summarise main articles for main ideas	newspaper and magazine articles	participation
	Reasons for water conservation		
Language/ Literacy	 predict facts and figures about water 	handout 1	student self- assessment
	• listen to tape or reading of text	teacher notes 1	:
	• check answers to quiz	handout 1	
	 discuss who uses water? why do we need water conservation? where to start? 	·	reflect critically on problem
	Saving water in the home		
Language/ Literacy/ Numeracy	 find information on water wasters and water savers in home 	handout 2	evaluate results of survey
	 fill in table and answer questions 	handouts 3, 4	
	 identify areas of water wastage/ water saving in home 	handout 5	
	 discuss water saving in the home 		

	Activities	Resources	Assessment
Language/ Literacy Numeracy	Help! • brainstorm advice for a family on how to be waterwise • report findings A letter of advice • write a personal letter	handout 6	contribution to discussion group presentation write letter
	What's your opinion?		
Language/ Literacy	discuss pros and cons of water bans	handout 7	
	model 'letter to the editor' and compare with personal letter	handout 8 (OHP of scaffold)	
	discuss editing process		
	write letter of opinion		draft and edit letter of opinion
<u> </u>	Water Audit		
Numeracy	discuss purpose of water auditmodel		student notes/ observation on water usage
	revise maths needed for water audit	calculators	
	observe household water consumption for a week	handout 9	completion of audit
Language/ Literacy/ Numeracy	• present research to group		participation in group discussion teacher observation



	Activities	Resources	Assessment
	How has your usage of water changed?		
Reflection	what do you want to follow up?	group, newspaper articles	teacher observation students formulate questions

additional activities

Water Consumption Everyday Maths (1990), pp. 30 - 37.

The concept for this section was developed by Rita Brademann.



AMAZING FACTS ABOUT WATER

I.	What percent	age of the earth's	water is fresh wa	ter?	
		2%	20%	50%	
2.	How much m	oney did Australi	a spent on supply	ing drinkin	g water last year?
		8 million	80 million	80 billion	
3.	How much of	this water was us	sed for drinking a	nd cooking?	?
		1%	10%	50%	
4.	How much w	ater was used to n	nake ONE newspa	aper?	
		7 litres	70 litres	700 litres	
5.	One million d	ripping taps coul	d fill Sydney Har	bour in $2\frac{1}{2}$	years.
		true	false		
6.	•	lian produces 20 (chemicals, and li	_	l waste per y	year - that's waste water
		true	false		
7.	Which Austra			blue-green a	algae in summer 91/92?
7.	Which Austra			blue-green a	_
	Which Austra Blue-green al	alian river was he	avily polluted by	,	_
		alian river was he Murrumbidgee gae can cause	avily polluted by	,	_
8.	Blue-green al	alian river was he Murrumbidgee gae can cause	Darling birth defects	Murr	ray
8.	Blue-green al	Alian river was here Murrumbidgee gae can cause cancer	Darling birth defects	Murr	ray
8. 9.	Blue-green al colds How much of	Alian river was he Murrumbidgee gae can cause cancer your body is mad	Darling birth defects de out of water?	Murra asthma	ray
8. 9.	Blue-green al colds How much of	Murrumbidgee gae can cause cancer your body is mad	Darling birth defects de out of water?	Murra asthma	ray
8. 9.	Blue-green al colds How much of the colds o	Murrumbidgee gae can cause cancer your body is mad yater per day do y	Darling birth defects de out of water? 70% rou need to surviv	Murrasthma 90% e? 50 litres	liver damage
8. 9.	Blue-green al colds How much of the colds o	Murrumbidgee gae can cause cancer your body is mad 50% yater per day do y 2.5 litres	Darling birth defects de out of water? 70% rou need to surviv	Murrasthma 90% e? 50 litres	liver damage



WATER QUIZ - SCRIPT FOR TAPE

The idea that the world can be out of water seems incredible. After all, 70% of the earth's surface is covered with water. But 98% of this water is salty, and can't be used for drinking or farming. Only 2% of the water on earth is fresh. Most of this water is in the form of ice. Water is a scarce and precious resource.

Australia, the driest continent on earth, has spent a huge amount of money on supplying its citizens with high quality drinking water - 80 billion dollars. Yet most of this water goes down the drain. 30% is used in washing clothes, and a fifth goes down shower grates and toilets. Only 10% of this water is used for drinking and cooking.

Of course, not all our water is used in homes and gardens. Much larger amounts are used to irrigate farmlands and do great damage to the environment. Large amounts are also used by industry, for cooling, cleaning, processing and removing waste. We usually don't think about the amount of water used in the production of everyday goods. Did you know that it takes 160 000 litres to make four tyres for your car, and about 700 litres to make a single newspaper?

But let's come back to the use of water in our home. Experts believe that we use up to 50% more water than we need to. We often waste water without thinking about it. When your kids play with the hose for five minutes on a hot day, 100 litres are down the drain. You don't care to repair your dripping tap? One million dripping taps could fill Sydney Harbour in only two and a half years.

When you use water, you also produce liquid waste, that's the water that goes down the sewer, full of grease, chemicals, and litter. Did you know that every Australian produces 70 000 litres of liquid waste per year?

A lot of this filthy water makes its way back into the waterways, through the sewerage and stormwater system. Water running off gardens and lawns, carrying fertilizer, chemicals, grease, litter and animal droppings can also pollute bushland and waterways. One of the dangerous substances in liquid waste is phosphorus. It is used in fertilizers, but also in laundry detergents and household cleaners. Phosphorus feeds the toxic blue-green algae. In the summer of 91/92, 1000 kilometres of the Darling River were polluted by slimy blue-green algae. They can cause birth defects, cancer and liver damage. There is a good chance that blue-green algae will affect YOUR local water ways as well. So - when YOU cut down on your waste water, you also help the environment.

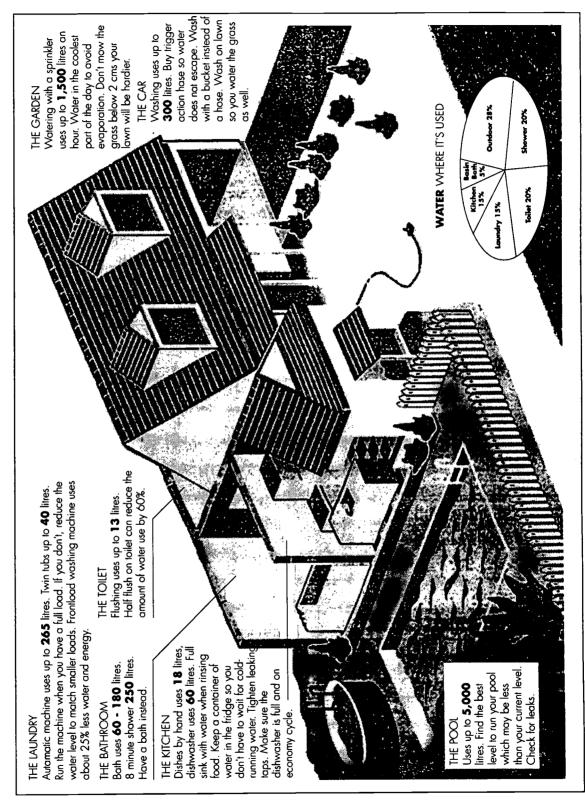
When people need more and more water, new dams have to be built. But dams cost the taxpayer money. Dams also change the river courses and destroy the natural environment. Deferring the need for a new dam is another good reason for saving water.

We can't live without water. 70% of our bodies are made out of water. It is surprising how little water we need to survive - only 2.4 litres per day. But the average Australian uses 300 litres per day.

Can we really afford to waste our water?



WATER USE DOWN, BUT A LONG WAY TO GO



SMH 1/10/94



Where	Water Wasters	Water Savers
garden & outdoors		
bathroom & toilet		
		Twin tub washing machine - 40l
	Dishwasher - 60l	

Find information on Water Wasters and Water Savers in the home and complete the table above.

Start with the graphic in the newspaper article (handout 2).

Concentrate on the most important information only - 2 or 3 points per box are enough.

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Think: Where can YOU start to save water?

Write down two things you could do in your home:

Read the newspaper article (handout 5) and answer these questions:

- 1. What are the big three water wasters in the home?
- 2. We use more water than we need to. How much?
- 3. 'This year the Water Board delivered a double assault on consumption.'
 Can you explain how the Water Board attacked the consumers?

- 4. With its advertising campaign, the Water Board hopes to cut down water consumption. By how much?
- 5. When the article was written, the Water Board did not think of water restriction. Why not?

WATER USE DOWN, BUT A LONG WAY TO GO

By JULIE DELVECCHIO and MIRIAM COSIC

Showers, toilets and gardens are the big three water wasters, according to Dr Peter White, consultant to the Nature Conservation Council of NSW's Water Conservation Project. Dishwashers come close behind.

It is also evident that our extra bathrooms, better kitchens, household sprinkler systems and the increase in the number of domestic swimming pools have dramatically increased water consumption in Sydney over the past 30 years. Yet conservation consciousness can save consumers money. A water-efficient shower rose which costs \$40 to buy would pay for itself within six months, Dr White said. A dual-flush toilet would reduce water consumption by more than 60 per cent. A survey published by the consumer magazine Choice in 1991 showed that dishwashers varied widely in water consumption: a Simpson Quintet 860B used 8,600 litres year, when run once a day, for example, and a Vulcan Dishlex 500 Eco used 12,300.

"We use over 30 per cent, and possibly over 40 per cent, more water than we need to," Dr White said.

Residential use accounts for more than half of Sydney's water consumption. Use in and around homes jumped from 185 to 285 litres per person per-day between 1951 and 1980, thanks to the advent of sewerage and sophisticated whitegoods.

The good news is that the figures are falling again.

In 1970, according to Dr White, the average toilet used 11 litres a flush. Today, dual-flush systems have reduced that to four litres.

Front-loading washing machines which typically use 90 litres a wash, compared with 140 for a top-loader only account for 8 per cent of the market at the moment, but their popularity is rising.

This year the Water Board delivered a double assault on consumption. On January 1, it introduced a flat rate of 65c a kilolitre for water.

For the first time people paid in direct proportion to how much they used.

And since August 4, a \$1.2 mllion advertising campaign in print and on radio has been reminding people to conserve, conserve, conserve.

"We did some market research before the campaign and people were saying, 'We know we have to conserve water, we just need to know how'," said Mr Colin Judge, a spokesman for the Water Board.

Mr Judge said people had responded magnificently to calls to conserve water for the use of firefighters during the bushfires last summer, and that had raised awareness considerably. "That brought to everybody's attention the value of water," he said.

The board is hoping the advertising campaign will help cut consumption by 15 per cent. "Consumption has been below average for this week and has been for the last month," Mr Judge said.

The board's target is to cut per capita consumption 20 per cent by 2005.

The board was not considering water restrictions, the usefulness of which was debatable.

"At the moment, we are seeking voluntary changes of habit and the chance of those becoming permanenta cultural change," Mr Judge said.

SMH 1/10/94



HELP THE JONES FAMILY TO BE WATERWISE!

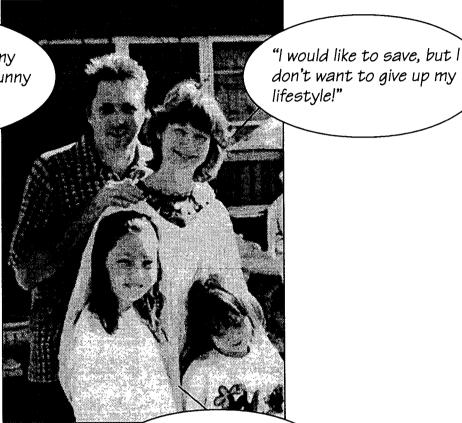
They have:

a big lawn, a pool, a car, a dishwasher,

a top-loading washing machine

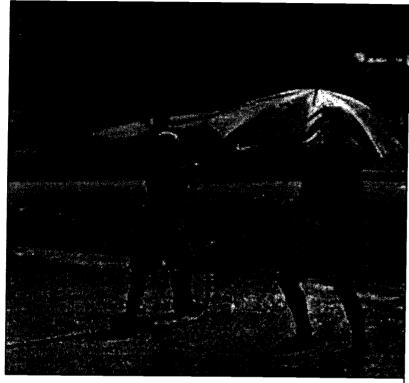
and a big water bill

"Should I concrete my lawn and have my dunny down the back?"



"We LOVE water fights!"

HOUSEHOLDERS TO FACE BANS ON WATER USAGE



By PAOLA TOTARO

Sydneysiders will face water restrictions for first time in more than 30 years as the State succumbs to a worsening drought and dam supplies dwindle.

The Minister for Planning, Mr Webster, announced yesterday that from November 1, the use of sprinklers, watering systems and fixed hoses would be banned between 10 am and 6 pm, seven days a week.

A total ban is to be placed on the washing of roadways, footpaths, buildings and all paved areas until further notice.





Sorry, boys, the game's over ... Adam, 5, and brother Isaac, 3, will have to play elsewhere. The water truck, bottom left, may have to be redeployed, and hosing the footpath is out, too.

SMH 11/94

Your opinion:

Do you support the government's decision?

Why? Why not?

Write a letter to the editor to express your opinion.

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WRITING A LETTER TO THE EDITOR

Sender's address
Date
Receiver's address
Greeting
State your opinion (briefly)
Develop your argument. Give details, evidence, explanations.
This could be more than one paragraph
Give recommendations
Closure
Ciosure
Signature
pignature:



WORK OUT WHERE YOUR WATER GOES

	litres used	٠	times per week	litres per week
Water in your garden				
Garden small sprinkler (one hr)	600	X	;	=
medium sprinkler (one hr)	1,000	x	:	=
large sprinkler (one hr)	1,500	x	:	=
Hosing (one hr)	1,000	x	:	=
Washing car	200	x	:	=
Topping up your pool using hose (one hr)	1,500	x	:	=
			Total :	
Water in your bathroom	· · · · · · · · · · · · · · · · · · ·			•
Toilet single flush	10	X	:	=
dual flush half	5	x	:	=
dual flush full	10	x	:	=
			Total :	
Shower				
Eight minute ordinary shower rose	120	X		
Eight minute water-efficient shower rose	80	x	:	=
			Total :	<u> </u>
Bath				**
Half full	85	X		=
Washing				-
Hands, face	5	X	es. es ? e Milles	
Shaving	5	x	=	=
Brushing teeth tap turned off	1	x	=	=
tap turned on	6	x	=	=
-			Total =	<u> </u>
Water in your kitchen	a management	. 23 - 45		
Washing dishes by hand (one meal)	20	X		-
old dishwasher (one cycle)	45	x	=	=
1990+ model (one cycle)	25	x		=
			Total =	<u> </u>
Preparation				
Disposal unit (per use)	10	X		=
Cooking, rinsing, drinking (per person per day) 10	x	2	=
			Total =	<u></u>
Water in your laundry				·
Washing clothes front loading (one cycle)	120	X	er i somenne de la companie de la c En la companie de la	<u>=</u>
top loading (one cycle)	180	X	:	=
Hand washing (per wash)	40	X	:	=
,			Total =	<u></u>
		Household	Total :	
		11005011010	TULAI -	_



SECTION 2 CALCELLA SECTIO

Gardens... why and how?



LEARNING OUTCOMES

In the context of this study students will:

- set personal goals
- set literacy and numeracy goals
- gather information and mathematical data
- interact with others and in groups
- reflect on learning
- gather information and mathematical data from texts
- present information and mathematical data in texts
- use mathematics creatively
- use language creatively
- use technology
- solve problems
- increase confidence and participation
- make choices.

TOPICS

Language/Literacy

- group discussion & listening
- vocabulary
- opinion writing
- informal letter writing
- reading authentic texts
- descriptive writing
- summarising main idea

Numeracy

- metric measurement
- area
- perimeter
- scientific calculator
- scale
- budgets

RESOURCES

- handouts 1-12
- teachers notes 1-3
- listening text (or tape) and questions
- garden site or students' gardens at home

to be supplied by teacher:

- trundle wheel, measuring tapes, grid paper and rulers
- scientific calculators
- gardening books, seed & plant catalogues
- additional resources: pamphlets available from Greening Australia (02) 550 0720
- models of opinion writing and formal letters



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		<u> </u>	
<u></u>	Activities	Resources	Assessment
	What's around?		
Introduction	tour of local area to look at gardens	handout 1	completed observation sheet
	discussion of gardens	teacher notes 1	
Language/ Literacy	listen to tape/reading of text	teacher notes 2 handout 2	completed worksheet
	Why gardens?		
Language/ Literacy	 discuss benefits of gardens 	handout 3	completed sheet
	• read article, Bush Medicine	handout 4	
	• develop vocabulary	handout 5	
	• understand the text	handout 6	
	 discuss & debate native plants vs introduced plants 	refer to handout 2	oral presentation to group
	• read article Desert yields new fruit sensation	handout 7	
	• complete worksheet	handout 8	
	• write your opinion	handout 9	conference writing completed writing

Numerous Connections



1

	Activities	Resources	Assessment
Language/ Literacy/ Numeracy	Planning a garden inspect & assess possible local garden site discuss kinds of plants to use plan & cost a garden list tools, plants & equipment needed evaluate suppliers	teacher notes 3, trundle wheel, tape measure gardening books, seed catalogues, magazines handout 10 gardening books & catalogues	students compare & check measurements
Numeracy	 draw to scale plan of proposed garden calculate area 	grid paper rulers handout 11	discuss completed sheet
Language/ Literacy	 Keep in touch write a letter to a friend about the garden you've planned or visited 	handout 12	completed letter
Reflection	 Some issues to discuss include How have your ideas of what to include in an Australian garden changed? Has your interest in gardening changed? Why or why not? What other related topics would you like to know more about as a result of your study of gardens? 		

The concept for this section was developed by Lynda Henderson, Maggie Sinclair and Leslie Stein.



OBSERVATION SHEET

Look at the garden and jot down some information:

Size of plot				
Kind of flora (note if native or introduced)				
Colour scheme				
Purpose of plants (shade, ornamental, food, wild life)				
Requirements of plants				
Maintenance			-	
Other decorations (gnomes, fountains)				

Numerous Connections



3

WHAT'S A GARDEN?

Here are some garden-related topics you may find interesting to discuss with your group. Select those that are appropriate, or choose others to suit the group.

- Many people have childhood memories of a garden. Discuss why/what
 people remember about gardens from their youth. If appropriate, discuss
 whether there are similarities/differences in gardens between different
 cultures.
- Gardens are planned areas, they don't just grow wildly in the bush. You may wish to discuss this in conjunction with Sally Morgan text (teacher notes 2).
- Australian gardens should have Australian natives only.
- People feel at home when they are surrounded by flowers that they are familiar with.
- There is no purpose to an ornamental garden it's a waste of time, money and energy.
- Given the water shortages around the country, ornamental gardens should be discouraged.
- Gardens are good for your health people feel better when they have access to gardens.
- Large cities should have garden areas which should be easily accessible.
- Artists often find inspiration in gardens. There are many gardens that have become familiar to us from paintings. Look at some such paintings, eg Monet.



LISTENING TEXT

This text can be taped or read by the teacher to the class:

Most of my happiest times were spent alone in the bush, watching the birds and animals. If you sat very quiet, they didn't notice you were there. There were rabbits, wallabies, goannas, lizards, even the tiny insects were interesting. I had such respect for their little lives that I'd feel terrible if I even trod on an ant. We'd come across all sorts of snakes, green ones, brown, black. Sometimes, the older boys used to kill the really big black snakes.

One day when I was on my own, I found some field mice under a rock near a honeysuckle vine. I often went to the vine, because the flowers were sweet to suck. It was almost as good as having a lolly. I thought the baby field mice were wonderful, they were pink and bald and very small. I decided it was a secret I'd keep to myself in case anyone harmed them.

As I sat looking at them, some boys suddenly appeared out of the bush nearby. When they saw what I was looking at, they ran over and pulled the mice out and held them high in the air, laughing and taunting me. They threw them to some kookaburras, who gobbled them up. I was really upset.

I had a crying tree in the bush. It was down near the creek, an old twisted peppermint tree. The limbs curved over to make a seat and its weeping leaves almost covered me. You didn't cry in front of anyone at the Home, it wasn't done. You had to find yourself a crying place. A lot of the kids cried in their beds every night, but it wasn't the same as having some place quiet to go where you could make as much noise as you liked.

I'd sit for hours under that peppermint tree, watching the water gurgle over the rocks and listening to the birds. After a while, the peace of that place would reach inside me and I wouldn't feel sad any more. Instead, I'd start counting the rainbow-coloured dragonflies that skimmed across the surface of the water, After that, I'd fall asleep. When I finally did walk back to the Home, I felt very content.

Morgan, S., 1990 Mother & Daughter Fremantle Arts Centre Press, Fremantle, pg. 96-97



LISTENING EXERCISE

Checking listening skills

1. List three kinds of animals Sally Morgan sometimes saw in the bush:

2. Why did Sally Morgan often go to the honeysuckle vine?

- 3. Why didn't Sally Morgan want anyone to know about the field mice she'd discovered?
- 4. What did some boys do to the field mice?

5. Describe Sally Morgan's crying tree.

6. Describe what happened to Sally Morgan after spending hours under the 'crying tree'.



WHY HAVE GARDENS????

In her article, **Bush Medicine**, gardener and journalist, Cheryl Maddocks, says this about gardening:

"The simple act of gardening has positive effects on stress levels and general health, and the very presence of plants can have physical and psychological benefits."

Before you read the article... Discuss with a partner what you think the benefits of gardening might be.

List what you think the health benefits of gardening might be.

Would the benefits be psychological or physical? Why?

What might be some disadvantages or dangers that arise from gardening? Discuss whether you think they'd be worth the risk.

Report your ideas and opinions to the class.



BUSH MEDICINE

GARDENING WITH CHERYL MADDOCKS

Stress is a scourge of late Twentieth century life. As books and courses on relaxation and meditation multiply and health farms proliferate, there is new evidence emerging on a source of stress reduction which has long been recognised intuitively by gardeners. The simple act of gardening has positive effects on stress levels and general health, and the very presence of plants can have physical and psychological benefits. These benefits encompass positive outcomes in promoting healing, reducing grief, increasing physical fitness and ridding the atmosphere of pollutants.

The power of plants on people can be immense. In August 1994 I wrote an article about American landscape architect Topher Delaney which focused on the effects of particular plants on cancer patients. Delaney suffered from cancer and spent months receiving chemotherapy and radiotherapy at the Marin Cancer Institute. The waiting room looked out onto a bare courtyard and she desperately felt that, because the patients in the room were fighting for their lives, they needed some positive focus to strengthen their spirits. Delaney had a strong belief in the power of plants to heal, comfort, inspire, cheer and uplift and she was determined that, once healed, she would leave something positive behind for other patients.

Delaney and her partner built an atrium garden next to the waiting room. Now patients waiting for treatment may either look out onto the garden or enter it and listen to

water as it flows through peaceful stone forms. They can gaze at the splendour of plants like digitalis, echinacea, violets and passion flowers. And the plants in the garden are used in healing. Delaney understood that plants with well-known healing qualities were therapeutic and inspirational. They created the desire to live. So when patients came to the clinic they received a small book containing photos of some of the plants in the garden and information about their healing qualities.

There is also evidence that gardening can be

therapeutically valuable in particular circumstances, like coming to terms with grief or going through menopause. Germaine Greer in her book *The Change* points out that there are millions of women who discover gardening between the ages of 45 and 55. Greer feels that the enthusiasm for gardening is not motivated by boredom, but because the effect of gardening is like a "mental tonic". Greer claims that "a garden is a kinetic work of art, not an object but a process, open-ended, biodegradable, nurturant, like all women's artistry. A garden is the best alternative therapy."

Many people also find that the regenerative nature of gardening is very helpful when they are going through the grieving process. Directing their physical energies to planting new beds or redesigning an existing garden becomes a creative response to personal loss.

Other research carried out in the US shows there is growing evidence linking gardening to physical and psychological health. Barbara Ainsworth, Assistant Professor of Sports Science at the University of North Carolina, has found that gardening tasks like digging, raking and planting are the physical equivalent of sports like snorkelling, volleyball and brisk walking. More demanding tasks like mowing the lawn with a push mower, chopping wood, shovelling and tilling are on a par with fencing, downhill skiing, softball and doubles tennis.

The psychological aspects of gardening are also receiving attention. In the US an agreed

stress measurement test (the Zuckerman Inventory of Personal Reactions) has been used in an attempt to determine whether green space in urban landscapes reduces stress. The researchers exposed volunteers to three types of scenery-countryside, urban with vegetation, and urban without vegetation-to find out the level of stress felt by people living in urban areas with little or no vegetation.

Results from the test showed that the urban group (without vegetation) demonstrated increased stress in four of the five "affect factors" (anger, sadness, positive effect and attentiveness). The countryside group showed reduced stress in three of the five affect factors. The group viewing urban areas with vegetation tended toward less stress in all five of the affect factors. And it was found that seeing vegetation in the urban environment had greater psychological impact upon the observer than viewing vegetation in the countryside.

Professor Margaret Burchett, from the Department of Environmental Biology and Horticulture at the University of Technology, Sydney, agrees that plants are a vital part of our urban landscape. She warns that as Australians become more urbanised, we risk becoming even more disconnected physically and psychologically from the vegetation that gives our planet life.

According to Burchett, "the psychological and social value of plants cannot be in doubt. People see them as producing a more beautiful and more desirable environment."

It is not only in the garden that plants are helpful. An environmental scientist working with Nasa in the US has found that indoor plants such as the Boston fern Ficus benjamina and dracaena can I remove 90 per cent of chemicals which commonly cause allergic reactions, such as benzene and formaldehyde, from the atmosphere. These chemicals are found in such materials as synthetic fabrics, carpeting and insulation. Because different plants absorb different pollutants, it is wise to have a variety of plants in the house.



A garden in bloom, like all greenery, looks good and aids wellbeing.

The Australian Magazine 13-14/1/96

ERIC

Worksheet

BUSH MEDICINE

Gardening with Cheryl Maddocks

What do you think the expression 'bush medicine' means? Discuss it with other students.

Have you had any experience with bush medicine? Jot down notes about your personal experience. Present your experience to the class.

Vocabulary: Find the following words in the text. Underline each one. If you're unsure of the meaning, try to work out the meaning from the article, then check with a classmate or look it up in the dictionary:

scourge

immense

therapeutic

inspiration

proliferate

intuitively

mental tonic

regenerative

vital

urbanised

synthetic

atrium

landscape architect



UNDERSTANDING THE TEXT

- 1. Cheryl Maddocks refers to an article she wrote in 1994 about landscape architect Topher Delaney.
 - a. List three of the plants Delaney used in her garden:
 - b. Why did Delaney also give patients a small book with photos of the plants?
 - c. In your own words, briefly discuss how Delaney used plants to help her and others battle against cancer.

- 2. Two other particular circumstances- coming to terms with grief and menopause were also mentioned in the article. In both these instances gardening has been found to be therapeutic.
 - a. In a few sentences, summarise the findings of Germaine Greer on this subject.

b. Explain the possible impact of gardening on people going through the grieving process.



3	6. Gardening is also being linked to physical health.
	a. Tasks like digging, raking and planting are the physical equivalent of
	b. Mowing with a push mower, shovelling, tilling and chopping wood are the physical equivalent of, and
	c. How do you think researchers came to these conclusions?
4.	. A study has been conducted to find out the connection between stress and vegetation.
	Three groups were looked at:
	urban group without vegetation
	countryside
	urban with vegetation
	Describe the findings of the study.
5.	NASA in the US has found that the Boston fern, a popular indoor plant, can be good for the health of the inhabitants.
	a. Explain NASA's findings.
	b. Why is it considered wise to have a variety of house plants in a house?



Worksheet

<u>ත</u> ෆ

6. Complete this table summarising the research done on the psychological and physical benefits of gardens:

researcher	topic	finding
		Gardening tasks can be equivalent to sports like fencing, snorkelling and doubles tennis.
	gardens and menopause	
NASA		
	effect of gardens upon cancer patients	
		vegetation in urban environments has greater psychological impact than vegetation in the countryside.

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Desert yields new fruit sensation

By DAVID PASSEY Rural Writer

It's blood red, it's Australian bush tucker and it may soon be the citrus fruit you reach for to garnish cocktails, squeeze over seafood or make into a psychedelic summer drink.

CSIRO scientists have released, for commercial development, a new citrus fruit that blends the genes of a wild, native lime from the desert with those of a common mandarin.

No-one is snre what to call itperhaps the Blood Lime or the Red Ochre Citrus - but already European chefs say the unusual fruit will add an exciting dimension to international cuisine.

According to Mr Andrew Beal, of Australian Native Produce Industries the company that expects to have commercial quantities of the fruit in 18 months, the "blood lime" was among the most exciting developments in bush tucker to date.

"French chefs who have tasted the fruit describe finding the new flavours as the culinary equivalent to a graphic artist discovering a new palette of colours to work with."

The fruit is one of four limes from the desert, two pure Australian fruits and two hybrids, that the CSIRO has just put forward for commercial experimentation and development.

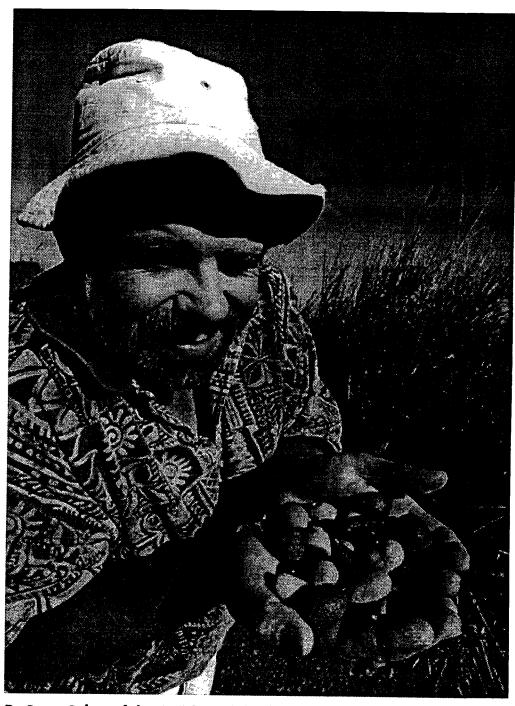
But the fruits, not identified until 1915 and largely forgotten until Dr Steve Sykes of the CSIRO began to experiment with them in 1989, have the potential to be much more than just a quirky culinary diversion.

Dr Sykes believes the essential oils from the fruits could make them ideal as a base for a sharpscented cologne, or to flavour teas in the same way Earl Grey was created.

"The plants were collected for our stocks in the early 1980s, but no-one bothered much with them until the big interest in bush tucker took off late in the decade," Dr Sykes said.

"I began to experiment with them as an aside and suddenly I realised the unusual colours, shapes and flavours could make the fruit a creative addition to the citrus world."

Mr Beal said the lime's attractions were "its vibrant crimson colour and its sensational



Dr Steve Sykes of the CSIRO, with his hands full of the desert limes.

and quite unique flavour. It has a very clean citrus tang; it's a sharp, very busy taste."

Mr Beal said that for the first time Australia, once known as "destination bland" in international food circles, was beginning to contribute significant new tastes to international cuisine. "For the past 200 years our only contributions to cuisine have been the pavlova and peach Melba. Let's face it, they are very Western foods, in fact they are about as Australian as Mao Zedong's toothbrnsh."

The fruits are not just ripe for interesting marketing angles but

are also a drought-resistant, salttolerant citrus that can withstand cold and heat. Although most Australians and the world, remain oblivious to desert limes, Aborigines and early settlers have long used them for making jams and cold drinks.

SMH 6/2/96



DESERT YIELDS NEW FRUIT SENSATION

Which fruits have CSIRO scientists crossed to create a new citrus fruit? Which of the crossed fruits is indigenous to Australia? According to the text what are some possible names for the new fruit? When are commercial quantities of the fruit expected to be available? Who began to experiment with the fruits in 1989? What does the CSIRO scientist think the essential oils from the fruit could be used for? According to this article when did the big interest in bush tucker begin? List three unusual characteristics of these new fruits. What have Aborigines long used desert limes for? Why was Australia once known as "destination bland?" Why do you think Australia can no longer be known as "destination bland"?

WHAT DO YOU THINK?

You've heard an excerpt from Sally Morgan's book about her experience in a native garden and read of the native citrus fruit that grows in the Australian deserts.

Some people think that Australian gardens should reflect the native flora of Australia. Others think that gardens should reflect people's past . For example, many European flowers thrive here and help make people feel 'at home.'

What do you think about the following topic?

We should only plant native trees and plants in our gardens.

First, list as many reasons as you can think of on both sides of the argument:

agree	disagree

Now, use your list to write your opinion as to whether we should or should not only plant natives in our gardens.

PLANNING A GARDEN

Inspect and assess possible sites for a local garden. This may include studying local maps, walking around the neighbourhood, and contacting local councils. You might find there is a student who would like his/her garden planned.

Encourage students to bring in gardening books and seed catalogues. You might arrange a visit to a local nursery to see what's available and what is recommended by the nursery workers.

Students should reflect on articles *Bush Medicine* and *Desert Yields New Fruit Sensation* as well as earlier discussions when deciding what to plant.

Encourage them to consider the garden throughout the year.

Think about when the flowers will bloom and when the fruits and vegetables will be in season.

They might also discuss colours, scents and heights of plants as well as how much time they want to spend maintaining the garden.



Use this table as a guide to list the things you'll need for the garden. You may need to create other tables.

Check prices and availability from at least two suppliers.

	supplier 1	supplier 2	selected supplier
tools			
olants			
ther (could			
nclude soil, ertiliser, garden			
ecorations)			

Which supplier(s) would you buy from?

Why?



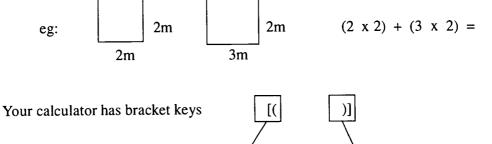
Workshee

CALCULATING AREA WITH A SCIENTIFIC CALCULATOR

- recommended calculator: Casio fx 82.
- 1. For basic operations, use the scientific calculator as you would any other calculator

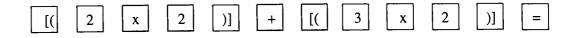
eg:
$$2m$$
 $3 \times 2 = 6 \text{ m}^2$

2. If you want to find a combined answer from 2 problems:



open bracket

so the buttons you push on the calculator will be:



Rule: For every symbol in the question, you must push a button on the calculator, in the same order as the question.

close bracket

3. If you want to find an area with a piece missing

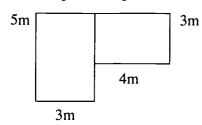
(eg: a window or door)

$$A = (5 \times 2.8) - (2 \times 1.5) =$$

Calculator method:



4. For composite shapes such as a lounge/dining



$$A = (5 \times 3) + (4 \times 3) =$$

Calculator method:

Method B

$$(5 \times 7) - (2 \times 4) =$$

Calculator method:







Note: These methods and the rule also work for "Order of Operation" or BODMAS topics.

Now calculate the area of your garden using a scientific calculator.



WRITE A LETTER

Let your friends know about the garden you've been working on and invite them to come and see it...

Let them know something about the garden.

You might include:

- what you've planted
- · what it looks like
- how you felt working on the project.

Invite them to come and see the garden.

Be sure to let them know:

- · when to come
- · where to come
- how to let you know whether they can make it (rsvp).

Make a draft first and work on it. Then write the final copy.



SECTION 3 PERSONABLE FORGE REASONABLE FORGE

Reasonable Force... an argument

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LEARNING OUTCOMES

In the context of this study students will:

- gather information and mathematical data
- interact with others and in groups
- reflect on learning
- perform procedures
- gather information and mathematical data
- present information and mathematical data in texts
- use mathematics creatively
- use language creatively
- use technology
- solve problems
- increase confidence and participation
- make choices.

TOPICS

Language/Literacy

- discussion
- genre opinion writing
- critical literacy
- writing and editing

Numeracy

- survey
- graphs
- percentages
- critical numeracy

RESOURCES

handouts 1–14

to be supplied by teacher:

- models of letters to the editor
- calculators
- protractors
- graph paper

FUTURE DIRECTIONS

- gun ownership
- martial arts
- self-defence strategies



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	Activities	Resources	Assessment
Introduction	know about gun laws and self-defence discuss cartoon	handouts 1,2	participation in discussion
	read articlecomplete worksheet	handout 3 handout 4	completed worksheet
Numeracy	 What do people think? conduct class survey present results in graphs* analyse results 	handout 5 handouts 6,7,8,9,10	presentation of results to group
Language/ Literacy	 What's your point of view? recount stories brainstorm arguments for and against the use of armed defence 	refer back to handouts 1,3	
	 read models of opinions; take notes on main points plan and write opinion - first draft write opinion 	handouts 11,12,13; models of letters to the editor handout 14 refer to model of opinion writing handout 15	present notes to whole group produce plan conference with other students, check work, produce written opinion



	Activities	Resources	Assessment
	Have you changed your mind about self-defence?		
Reflection	• did student's opinions change? Why/why not?		
	other methods of self- defence other than armed self-defence		
	why do we need to defend ourselves?		

additional activities

The concept for this section was developed by Caroline Kane.



^{*}Charts and Graphs: Numeracy on the Line Charts and Graphs, pp. 1-38.



SMH 29/4/95

ERIC Full Text Provided by ERIC

CARTOONS

Cartoons in newspapers often use a combination of words and pictures to draw attention to the main stories in the news. They often make their point through humour and through pointing out the irony within the stories.

In small groups discuss and make notes on the following points:

- the main message of the cartoon
- the images/ pictures

How effective are they? How do they make you feel?

the words

How do they combine with the pictures? What are they saying? How are the words written and what effect does this have?

your overall impression

Is it funny? Does it make you smirk/ belly laugh/ chuckle? How do the ironies work?

Present your findings to the rest of the group.



Man, 84, awaits fate on shooting

By ADAM HARVEY and AAP

Adelaide police and the South Australian Director of Public Prosecutions (DPP) were trying to decide yesterday whether to charge a "severely disabled" 84 year old man with killing an intruder who broke into his home early yesterday.

A 32-year-old man was shot dead about 12.15 am in Adelaide's north western suburb of Bowden after allegedly breaking into the premises.

Detective Inspector Rob Lean, of the South Australian police, said a report of the investigation would go to the DPP for assessment before the matter went any further.

Police said Mr Alby Geisler, a pensioner, lived alone in the house and had severe disabilities. Neighbours said yesterday that Mr Geisler was nearly completely deaf and that he had been a victim of crime recently he had been bashed and his shed had been burnt down by vandals several weeks ago.

Last week, Queensland police decided against charging a Brisbane man, Mr Gregory Bateman, who shot and killed Matthew Easdale, 16, after Easdale crashed through a window of Mr Bateman's house, armed with a stick.

It appeared that Mr Geisler had been defending his home against the intruder, who

was well inside the house when he was felled by one shot, police said. Mr Geisler was a registered firearms owner and a number of weapons had been found about the house, they said. A police spokesman said yesterday that there was no rush to decide whether Mr Geisler would be charged.

South Australian gun laws are similar to NSW's, in that people may keep a gun in their home only if they have a valid reason for using it, for instance, being a member of a gun club.

However, rifles kept in the home must be secured in a steel cabinet, a safe or locked to a gun rack. The ammunition and the bolt mechanism for the gun must be kept separately and a trigger lock must be fitted to the gun.

Under South Australia's criminal laws, a person does not commit an offence by using force if that person believes force is necessary and reasonable to defend themselves.

NSW residents may have a gun in the home only if they are a member of a gun club, a gun collector, a farmer, or they need the gun for work - for example, if they are a security guard or they cull animals as an occupation.

SMH 5/5/95

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MAN, 84, AWAITS FATE ON SHOOTING

Read through the article and underline the main parts of the story so that you can explain exactly what happened.

Look for these words in the article, underline them and try to work out their meaning:

charge

Director of Public Prosecutions

intruders

breaking in

premises

victim

felled

registered firearm owners

weapons

rifles

ammunition

bolt mechanism

trigger lock

commit an offence

force

List all the words related to guns in the article.

List all the words related to the law in the article.



BALLOT SHEET

Ask at least 20 people the following question:

Is it OK to use guns to defend our homes from intruders?

Record their answers (using the tally method) below:

answer	tally	total
yes		
no		
don't know		



PRESENTING YOUR RESULTS

Is it OK to use guns to defend our homes from intruders?

Here is a a set of results from one survey of this question:

total	10
don't know	2
no	3
yes	5

These results can be presented as:

- a bar graph
- a pie chart
- percentages.



BAR GRAPHS

Graphs have 2 axes:

• on the horizontal axis \(\ldots \rightarrow \) we usually show what it is we are measuring or counting. In this case we are counting

YES NO and DON'T KNOW votes.

• on the vertical axis \downarrow we usually show the results—in this case the number of votes.

Example

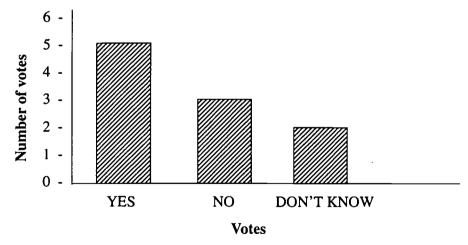
If the results of the vote are:

YES - 5 votes

NO - 3 votes

DON'T KNOW - 2 votes

The graph would look like this:



- Don't forget to label your axes
- Now design a graph for your results. You may want to use graph paper.



PIE CHARTS

Here is an example of how to design a pie chart.

There are 360° (degrees) in a circle.

divide 360 by the total number of students	answer = degrees for each student	multiply by the number of votes	re	sults
total students 10 $\frac{360}{10}$	36° per student	Yes votes x 36° No votes x 36° Don't know votes x 36°	Yes No Don't k	180° 108° now 72°
			These numi add to 360	bers should

Using the blank circle (handout 9) and a protractor, measure the degrees and construct a pie chart.

Try this with your results:

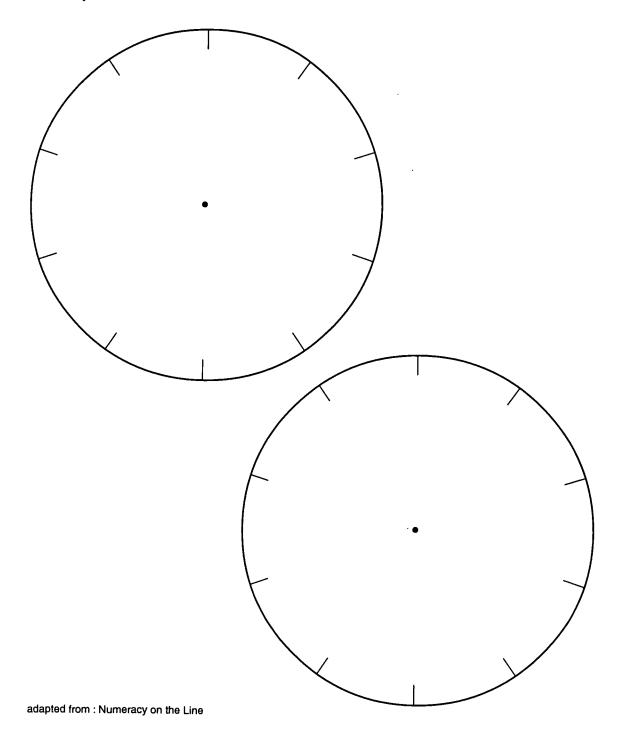
divide 360 by the total number of students	answer = degrees for each student	multiply number o	by the f votes	results
total students	° per student	Yes No Don't know	votes x° votes x° votes x°	Yes° No° Don't know°
				These numbers should add to 360°



PIE CHARTS

Complete these pie charts with

- the results presented in handout 8
- your results



Numerous Connections



11

PERCENTAGES

The results of your survey can be shown in fractions and can be changed into percentages (%).

Example: If the results are

YES	5
NO	3
DON'T KNOW	2
Total	10

they can be converted into fractions, decimals and percentages:

	fraction	same as	as a decimal	results in percentages %
YES	5 10	5÷10	0.5	50%
NO	3 10	3÷10	0.3	30%
DON'T KNOW	<u>2</u> 10	2÷10	0.2	20%

Explanation:

 $\frac{5}{10}$ is the same as 5 divided by 10 [5 ÷ 10]

If this is done on a calculator we get $0.5 [5 \div 10 =]$

To work this out as a percentage press the following keys on the calculator

5 ÷ 10 %

This gives an answer of 50, which means 50%.

Note: on some calculators it is important NOT to press the = button before or after the % button. What does your calculator do?

How would you do this calculation on a scientific calculator?

Your Results

Now use the table below to work out your results as percentages:

result as fraction	same as	as a decimal	result in percentages %
L			



Stenon J. Reasonable Port

Coroner must decide in home invasion killings

By George Zdenkowski

ome invasion has provoked debate in two areas: punishment of offenders and the rights of householders to protect themselves against intruders.

The focus on the rights of householders to defend themselves has been prompted by two cases in which the authorities have declined to prosecute householders for their actions in shooting and killing intruders. In Brisbane, 16-year-old Matthew Easdale died when he was shot in the chest by Gregory Bateman. According to police, Bateman awoke to the sound of smashing glass and confronted Easdale, who was carrying a stick, in his living room. The single shot fired proved fatal.

A few days later, Alby Geisler, an 84-year-old man with severe disabilities, fired a single shot to kill a 32-year-old intruder who broke into his Adelaide home just after midnight. According to police reports, Geisler was a registered firearms owner and several weapons were found in his house.

The options available were to decline to prosecute or to charge Bateman and Geisler with murder or manslaughter. A decision not to prosecute has several advantages: it saves time, money and removes the uncertainty and anxiety involved in protracted court proceedings. On the other hand, it is a preemptive strike and may, in the view of some, usurp the jury function to assess the appropriateness of the killer's response to the situation confronting him or her. A decision to prosecute allows justice to be seen to be done, but it also entails costs, delay and considerable trauma.

Although the ultimate outcome was the same, the official responses in the two cases varied considerably. In Queensland, the police immediately announced that Bateman would not be charged. The Police Minister welcomed the decision and his counterpart accused the Police Commissioner of playing politics.

In South Australia, the response was more cautious. A report of the police investigation was referred to the Director of Public Prosecutions. A week later the DPP announced that he would not be prosecuting Geisler in view of his age and his belief that he was in danger. In the circumstances, the DPP had formed the opinion that there was no reasonable prospect for conviction.

The decisions prompted widespread debate, not only about the right of people to protect themselves in their homes, but also about the use of firearms.

Homicide victim support spokesperson, Ken Marslew said: "Shooting someone who invades your home should be the last resort. Otherwise we will end up like America ... the kid may have bolted, but you never know." (This raises the interesting issue of why neither Bateman nor Geisler fired a warning shot.)

Mike Ascher, president of the NSW Pistol Association, agreed that the American road of licensing firearms for personal protection was undesirable, but appeared to regard protection of house and family as a question of masculinity: "I would use whatever force was necessary and take the consequences afterwards ... Whether I would be legally entitled to do so or not would make no difference ... Anyone who is half a man would do the same."

Politicians also weighed in. The Federal Justice Minister, Duncan Kerr, emphasised the need to resist "right-wing rhetoric on law and order issues and gun ownership". The NSW Attorney-General, Jeff Shaw, stated that "reasonable force can be used by householders to deal with home invaders but not excessive force, and householders have to consider carefully the steps they take in those situations".

And this is a reasonable statement of the current law which occasionally got lost in the claims and counter-claims that followed

these shootings. Strictly, a householder is only entitled to resort to lethal force when faced with a lethal threat. Lesser threats can be met with proportionally lesser responses.

But it is clear that courts and juries don't weigh the proportionality issue in finely calibrated scales. In the agony of the moment some latitude is allowed. The case law takes account of differences between attacker and defender in terms of age, size and gender.

The debate in NSW is given an edge because of the recent election to the Legislative Council of Shooters Party member, John Tingle. Following the Easdale shooting in Queensland, Tingle reportedly said, "It's time to put all potential intruders on notice that they leave their rights at the door when they invade someone's home". This may be a political aspiration but does not represent the current law.

The current law as to defence of self and others against intruders strikes a reasonable balance. The decision-making process as to prosecution of persons who kill or injure intruders should be impartial and rigorous. In appropriate cases, it is legitimate not to prosecute. However, the danger of injustice, or appearance of injustice, cannot be underestimated. (Consider the parallel situation of alleged killings in self-defence by police officers.) In the event of a death, the coroner should conduct an inquiry. Licensing of firearms is an invitation to greater violence.

These are the conclusions I trust will emerge from the Criminal Law Review Division of the Attorney-General's department in the report requested by the Attorney General, Jeff Shaw in the wake of these tragic shootings.

George Zdenkovski is an associate prefect of law at the University of NSW

SMH 1995



Stop shooting from the lip

t is strange how irrational most of the debate on guns and gun control tends to become. Guns have a power to evoke emotions an a scale which totally obscures any attempt to coolly discuss how much of a problem they represent, and what to do about it. Take the case of the recent fatal shooting of a 16-year-old boy in Queensland. What if the householder, who awoke in the middle of the night to hear his door being smashed open and who picked up a rifle he had handy and shot the intruder, had not possessed a gun but instead had had an iron bar handy and had smashed in the boy's skull? That is, guns apart, how much violence is a householder entitled to use if his or her house is invaded? The law in Queensland, and it is much the same elsewhere, indicates reasonable force is permitted. The police in this situation are quite right in not recommending prosecution. But should the law be changed? That is, should there be some kind of code as to how much violence in self-defence or in apprehension of what an intruder intends, is allowed? How do you

Quite frankly, if someone smashed his way into my place in the middle of the night, I would be pretty frightened, and inclined to take as strong defensive measures as I could. You might well not be in a position or sufficiently calm to judge the appropriate degree of force, or willing to risk prior discussion - after all, your door has just been smashed down, and you have no idea of the identity of the intruder, his intentions, or what weapons he might be carrying.

judge the circumstances?

But the problem is the gun. It is clear if a gun is the first weapon to hand, the use of it is overwhelming and possibly final, even if your initial apprehensions turn out to be mistaken. This alone suggests that there ought to be pretty strong disincentives for anyone to make a gun the first weapon of choice - for example, by making it illegal in any circumstances to use a gun in a house or built-up area unless there was a clear threat from another person pointing a gun. But what about a woman attacked by a large man intent on rape - should handguns be denied in all circumstances? Should other concealed weapons, including mace and similar sprays? Even so, it seems a pretty good general rule to prohibit the use of guns except for certain purposes which never exist in a city or a house. And certainly there is no justification at all for anyone possessing the kind of powerful assault weapons which have been used in some recent massacres.

However, it is clear that many on the anti-gun lobby want not only to prohibit the use of guns in other than special situations, but also to make the possession of and use of guns illegal in all circumstances that is, no rabbit or duck shooting, no rifles kept on farms, and so on. Again, it is clear that if there is a gun on the premises, someone might be tempted to use it in moments of emotion, and this is more likely to involve a man terrorising a woman. Possible use of a gun for suicide is another matter, and no reason to ban guns although it is likely to be messy and perhaps unsuccessful.

There is a good case to be made for an absolute prohibition on the import of any guns other than small-calibre hunting rifles and shotguns, certainly all handguns, other than those for the use of police and security guards, again under strictly controlled conditions (which do not seem always to apply to the Victorian police force). But what are we going to do about all the existing weapons in the community?

A few years ago, the gun lobby was claiming that some 3 million households owned one or more guns. To make the possession of guns illegal might be a good start - but this would have to be done under State law, since the constitution might require compensation to be paid if the Commonwealth tried in effect to confiscate all existing legal guns. This would cost hundreds of millions of dollars and much litigation. But if all States made guns illegal, it would still leave a huge illegal armoury which would increasingly find its way into the hands of criminals.

And what about civil liberties? The gun lobby's claim that there is some kind right to bear arms is nonsense, and there is no real infringement of anyone's liberties in forbidding the possession of dangerous weapons. But the official civil liberties people who think that there is a civil liberties issue involved in the shooting of the 16year-old are equally talking nonsense. An aggressor has no civil liberties vis-a-vis a person he is attacking, beyond the common law requirement that the defence not be excessively forceful in light of the attack. To punch someone who merely insults you is worse than to defend yourself against someone who punches you without provocation.

Really what is going on in Queensland is a political game. The Opposition is furious that the Goss Government might look more effective in populist "law and order" terms than it does, which seems unfair to the Opposition because it really means it. The civil liberties people are also talking about the law and order debate, and they are simply using the unfortunate death of the boy as a stick to beat Goss with to try to prevent him further outflanking the Opposition. But at least the Opposition is talking about a genuine concern, however misconceived, that there is a higher level of violence in our society

The civil liberties gang (who are not consistent at all, but really these days just an anti-police lobby) cite dubious statistics, but make no attempt to come to grips with the genuine fears, however unfounded, of those in the community who respond to almost daily reports of homes robbed or invaded, and violence against the person. Perhaps this is the fault of the media, but does the fact that rape was once under-reported, and now may still be but less so, make the issue any less important?

But when we move to a greater degree of gun control, we had better face up to the issue of whether in fact we wish to prohibit guns and their use, or whether we want to limit the rights of individuals to take defensive action when they are threatened, attacked or invaded. That is, do we really think that criminals have rights such that a person may not defend himself without worrying about hurting the criminal?

There has for hundreds of years been the presumption that trespassers cannot be subjected to hazards such as mantraps, so clearly someone who is on another's premises is not totally without rights. Nevertheless, the law has always accepted that reasonable force in self-defence, which can include killing provided this is not the original intention, is acceptable. But the law has for some time now been taking a strange direction which assumes that a criminal is somehow protected from his victim. We see this frequently in the courts when the rights of the accused are given great prominence, and the rights of the victim are relegated to secondary consideration.

Padraic P. McGuiness

Numerous Connections



SMH 29/4/95

SPECIAL REPORT

This article is a special report which contains someone's opinion.

Just by glancing at this article we can recognise what it is.

How do we know that it is one person's opinion?

How does this kind of article differ from an editorial?

Briefly, what is the general opinion of this report about gun laws?

What are the main points for and against gun laws made in this article? Make notes in the table below:

	for		against	
,				

IS ARMED SELF-DEFENCE GOING TOO FAR?

You have read a variety of articles in which different people have given their opinion on this subject. Now it's your turn. Begin to plan and draft your own argument for or against this question. Don't forget:

- · to plan your work
- to use a strong introduction in which you:
 clearly state your point of view
 indicate some of the points which you will cover in your work
- to put each new point into a new paragraph and give examples to prove or justify your point
- use some of the points used by the opposite argument and show why they are wrong
- · use linking words to help your work flow
- when you have written your first draft check through it yourself and check that:
 the points are made clearly
 all the relevant points are made
 each new point is in a new paragraph
- · to get a friend to check through your work for meaning
- finally, to check spelling, grammar etc and write or type up your work neatly.



Guns should be banned

The debate about gun laws is a very serious one indeed. This is because human life is involved. Firstly, there is no excuse for ordinary citizens to have guns. Guns should only be for the army and the police. Secondly, guns cause more violence and death. The number of guns around forces normal people to get guns and guns are very often misused and kill the wrong people. Finally, instead of allowing more people to have guns we should look at what has gone wrong with society that people feel they need guns.

Guns cause more violence and death. The more guns that are in society the more people will have them for protection. Because of this people will begin to think that a gun will solve all their problems eg if they have an argument or if they feel threatened they will pull out a gun when in the past they would have talked it through. This will therefore cause more people to get hurt.

If you have a gun in your house it is more likely to be used on a member of your household than on a thug from outside. This can be through accidents, domestic violence, mistaken identity, etc. Therefore guns are often used to kill the wrong person.

The more guns that are around the more guns there will be. If your neighbours, family and friends all have guns you will feel that you have to have a gun. The more guns that there are in society the more people will get shot.

The real question we should ask ourselves is why there is so much violence in society? This is especially important to ask the media because they show and glorify the violence in society. Other questions should be asked: Why do people invade each other's homes? Why do youth choose violence to express their inner turmoil? Where do these young people get their examples or role models?

In the end guns are not the answer. Guns are the result of a society which has gone wrong, an irresponsible society. If we do not do something soon we will have to hear another mother's agony and pain for her dead child.

CAFE student

1995



SECTION 4 ABBRIGINALLAND ABB

Aboriginal Land ... Mabo and Other Places

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LEARNING OUTCOMES

In the context of this study students will:

- set personal goals
- set literacy and numeracy goals
- gather information and mathematical data
- interact with others and in groups
- reflect on learning
- perform procedures
- gather information and mathematical data from texts
- present information and mathematical data in texts
- use mathematics creatively
- use language creatively
- use technology
- solve problems
- increase confidence and participation
- make choices.

TOPICS

Language/Literacy

- vocabulary of maps and mapping including scales
- Aboriginal names
- Dreamtime stories
- read and construct texts related to maps and texts
- critical literacy

Numeracy

- map reading
- area estimation and measurement
- percentages
- critical numeracy related to maps, keys, alterations or adjustments of detail

RESOURCES

- teacher notes 1 5
- handouts 1 11

to be supplied by teacher:

- atlas
- road maps of South Australia (state motorists' associations have detailed maps available)

Optional Resources

ATSIC Aboriginal Australia Commonwealth of Australia ISBN 0644 251 1328 (available from post offices for \$10.00)

Native Title Act, Information Kit on Native Title, produced by the Office of Public Affairs, Aboriginal and Torres Strait Islander Commission 1994. (available on request from ATSIC)

Australia Land Tenure Map from AUSLIG PO Box 2 ACT phone 06 201 420

FUTURE DIRECTIONS



establish Aboriginal resource collection plan a trip to local Aboriginal sacred site

2. 3. 4		1. 1 2/2 × 1/2 × 1/4 × 1	ş 1 · · · · · · · · · · · · · · · · · · ·
	Activities	Resources	Assessment
Introduction	 Mabo and Other Places brainstorm students' prior knowledge and issues that have affected students 	teacher notes 1	participation in discussion
	complete mindmap	handout 1	report to group oral presentation
	Mabo Australis		
Language/ Literacy/ Numeracy	 interpretation of map estimation discuss vocabulary of key Land Use critically analyse text, figures rewrite Land Rights scale critical map comparison 	teacher notes 2 handouts 2, 3, 4, 5 teacher notes 3 handout 6 teacher notes 4 handouts 7,8	assumed knowledge of area and measurement**
	Aboriginal Life discuss the Dreamtime estimation scale and problem solving critical map comparison create Aboriginal resource collection	teacher notes 5 handouts 9, 10, 11	

additional activities

*Calculator Use: Maths a New Beginning pp EC 19-44

-

** Area Maths a New Beginning pp MM 1-11

The concept for this section was developed by Edd Ashmore.

Numerous Connections



1

MABO AND OTHER PLACES

Whole group discussion:

It may be useful to treat this session as one for accumulating student queries into a question bank, as much as for getting discussion underway.

Prompt Questions could include:

- What do you know about the High Court of Australia's Mabo decision?
- Where did you get your information newspapers, television, books, radio programs, radio talkback programs, government-produced publicity, friends and workmates?
- · How reliable do you think your source is?
- How are Australians generally affected by the High Court's Mabo decision in your town, region, state, etc?
- What groups in Australia are particularly affected householders, farmers, Aborigines, miners, big companies and corporations, graziers, migrant groups, workers, etc?
- · Why do you need to know about the Mabo decision?
- Does it affect the way you think about land ownership in Australia? Why? How?
- · Why do you think that the unit is called 'Mabo and Other Places'

Issues to do with the history of the Mabo decision, the politics of land rights, the colonisation of lands previously occupied, legal definitions such as 'terra nullius', etc, will almost certainly arise in this discussion. Teachers will have to make decisions through negotiation about the appropriateness of such discussion with the student group. One option may be to sideline many issues for later or parallel units of work so as to maintain impetus on the particular literacy/numeracy focus of this unit.

Small group discussion:

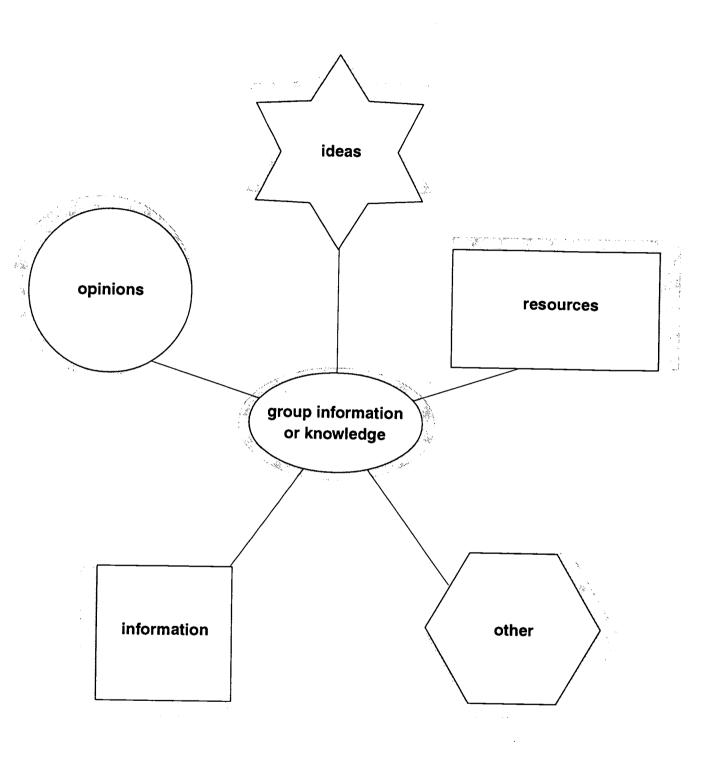
Each group to generate a bank of ideas, opinions, information, possible places for finding resources from classroom, library or personal collections, etc.

Record all ideas as in a brainstorm. Categorisation can be left until later if necessary. See handout 1.

Assessment tasks:

- reporting of collected information to the whole group
- pooling and categorisation of resources
- reviewing collected information as a group in the context of the question bank established at the introductory discussion.





Numerous Connections



3

MABO AUSTRALIS

Discuss land use with the students. Explain that the different shaded areas on the map represent different kinds of current land use (handout 2).

At this stage, use an OHT of the map only of "Mabo Australis" so that students can predict land usage. The key and the text will be introduced at a later stage (handout 4 and handout 6). The estimation exercises may be difficult to pursue effectively if students have access to all the information at once. See handout 3.

It may be useful to look at land usage in an atlas and compare this with the map on handout 2.

Estimation

- 1. Establish by discussion, questioning or student contributions, what would or might be an appropriate measure of area when talking about the entire continent.
 - Incidental activities informing this discussion may be needed eg establishing that area is measured in square units each side of the square being the same length. Introduce or review units of areal measurement e.g. square centimetre/cm², square metre/m², square kilometre/km² etc. Apart from some basic demonstration this activity would not need to be done in great detail.
 - Discussion should quickly establish that it would be extremely difficult to estimate areas of different land use using any of the standard units of area.
- 2. Estimate fractional proportions referring to the land use areas shown on the map. These need only be very rough more than half, less than half, more or less than a quarter etc. Incidental activities might include doing the same kind of fraction estimation using regular shapes (square, circle, triangle, rectangle). See handout 4.
- 3. Discussing the relative ease and difficulty of the tasks will lead into clarification of the reason for the difficulty ie the scattered, irregular shapes being looked at, the intermingling of different land uses in one general area, etc.

Revise formulae for area of:

• square
$$A = l \times w$$
 (Area is length times width)

• rectangle
$$A = l \times w$$

triangle
$$A = \frac{1}{2}b \times h$$
 (Area is half base times height)

• circle
$$A = \pi r^2$$
 (Area is π times radius times radius)

 $[\pi \text{ can be taken as equal to } 3.1416]$

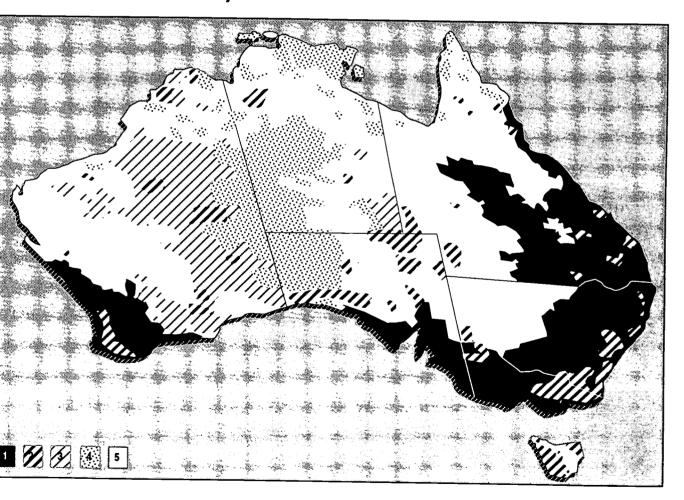
Assessment tasks could include:

- participation in discussion
- small group solving of problems
- using calculators to check estimation in groups/pairs/individually as appropriate
- identification and features of geometric shapes.
- using formulae to work out areas of regular shapes, irregular polygons etc.



MABO AUSTRALIS

This is the new map of Australia. Produced by the Australian **Surveying and Land Information** Group, the map is expected to become the point of reference for the ongoing debate over the High Court's Mabo decision. The map does not show which land could be subject of Mabo land claims but gives a picture of how the 7.6 million square kilometres of land in the continent is being used and by whom.



e Daily Telegraph Mirror, Thursday, September 2 1993 p.11



Why were there differences?

MABO AUSTRALIS

Discuss in your group the different shadings used in the map. Using your knowledge of the world to list the possible uses of the different areas. List possible land use types: Now list the land use types shown in the key: How do these 2 lists compare?

MABO AUSTRALIS

Forestry reserves and nature conservation reserves. Area used: 661,700 sq km. Percentage of Australia: 8,6% Forestry reserves are public land and managed by State forestry services. Nature conservation reserves include State recreation areas, conservation parks, environmental park, etc.

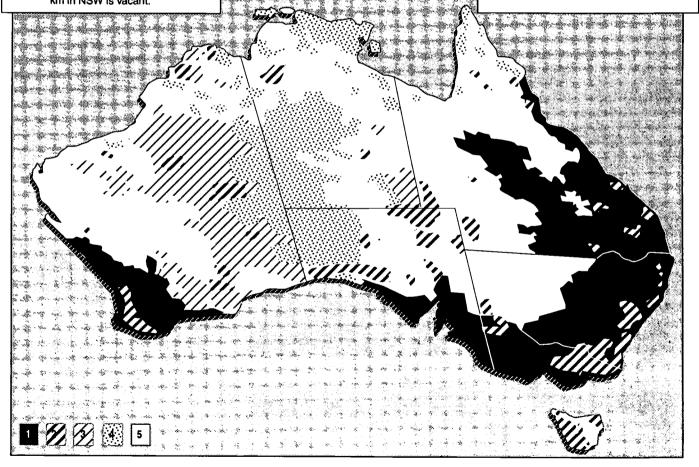
Vacant Crown land. Area:
961,000 sq km. Percentage of
Australia: 12.5% this land, owned
but used by the Crown, is most
eligible for Mabo land claims. But
the vast majority of this land is in
West Australia where 863.5 sq km
fall into this category. Only 1400 sq
km in NSW is vacant.

This is the new map of Australia. Produced by the Australian Surveying and Land Information Group, the map is expected to become the point of reference for the ongoing debate over the High Court's Mabo decision. The map does not show which land could be subject of Mabo land claims but gives a picture of how the 7.6 million square kilometres of land in the continent is being used and by whom.

Aboriginal land. Area: 1,093,000
sq km. percentage of Australia:
14.2% Land held by Aboriginal
communities with special
conditions attached to the titles.

Freehold. Area: 1,583,000 sq km. Percentage of Australia: 20.65% Land held by private residents.

Leasehold. Area: 3,233,000 sq km. Percentage of Australia: 42%. This land is also regarded as privately owned. Much of it is controlled by perpetual lease held by pastoralists.



The Daily Telegraph Mirror, Thursday, September 2 1993 p.11

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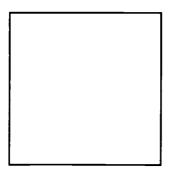
Numerous Connections

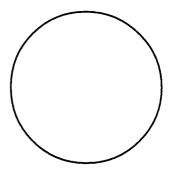


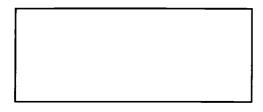
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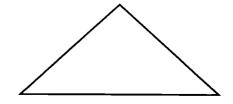
MABO AUSTRALIS

Name each of these regular shapes.









You have to work out the area of each of these shapes.

Which one do you think would be easiest? Why?

Which one do you think would be the most difficult? Why?



LAND USE

Prompt Question:

How can we establish some basis on which to discuss the land use of the whole continent?

Answer: The use of a key provided by the map-makers. There may need to be some discussion about the accuracy and/or reliability of the figures being used in a newspaper map which is "based on" a much more detailed map. Notions of critical literacy and numeracy may enter such a discussion.

Use an OHT and handouts of the map "Mabo Australis" with the key and text if appropriate (handouts 2,4; completed handout 3). Discussion and dictionary work on the vocabulary of the key.

Prompt Questions:

What is crown land?

How is freehold different from leasehold?

What is a square kilometre?

Do the square kilometre figures for each region total the 7.6 million square kilometres stated in the text?

Do the percentage areas total 100%?

Can you find any discrepancies in the overall figures?

Can the discrepancies be explained? How? (approximations, rounding off of numbers, etc)

Critical Numeracy

The figure for square kilometres of vacant crown land in Western Australia is apparently incorrect. How would you work out the correct area? Can it be done? Where might information be found to do this calculation?

Critical Literacy

The language in the key and the article's text (handout 6) can be examined for bias:

- In the introductory paragraph above the map it is described as "the new map of Australia". The use of the definite article 'the' could be critical for any further reading of the text. How does the meaning change if 'the' is replaced by 'a'?
- The first 3 paragraphs of the text talk about land being "safe from Mabo-style claims", being "most vulnerable" and being "most at risk". Whose values do you think this language is reflective of? Can other examples of possible bias be found?
- What are some other ways this information could be expressed? For example 'available' rather than 'at risk'?



Numerous Connections

77

- Rewrite the introductory paragraph/s to provide a bias which is positive for:
 - Aboriginal people
 - pastoralists on leasehold land
 - the removal of any concerns about freehold land etc.
 - The teacher should model a rewrite of this type.
- Are there discrepancies or variations in the different parts of the text?

Assessment tasks could include:

- problem solving of mathematical questions in small groups, pairs or individually, as appropriate
- production of rewritten sentences/paragraphs/introductions in small groups, pairs or individually.



MABO AUSTRALIS

HE vast majority of land in Australia will be safe from Mabo style claims, according to this new Federal Government map released yesterday.

The map outlining land ownership in Australia indicates about 12 per cent of all land is most vulnerable to Mabo style claims by Aborigines.

This land is vacant Crown land, the areas considered most at risk of successful Mabo claims. The map details private freehold, leasehold, Crown land, national parks, forests and Aboriginal lands in Australia.

If vacant Crown land is the area most likely to be subject to successful Mabo claims, NSW, Queensland and Victoria are the States with least to worry about.

These States have virtually no vacant Crown land. Western Australia has 90 per cent of the 12 per cent of Australia's vacant Crown land. South Australia has less than 1 per cent of vacant Crown land.

Other Crown land makes up 1 per cent of Queensland and it is so small in NSW and South Australia.

According to the High Court's Mabo decision last year recognising native title for Aborigines, not all Crown land can be claimed because the decision requires Aboriginals to show continuing links with the land.

The map – by the Australian Surveying and Land Information Group – shows about 20 per cent of Australia is freehold land and 41 per cent is leasehold land.

Across Australia, nature conservation parks make up 6 per cent, forestry 2 per cent and 14 per cent is already Aboriginal and Torres Strait Islander land.

More than 50 per cent of NSW is freehold land, compared with 36 per cent in Queensland, 16 per cent in South Australia and 40 per cent in Tasmania.

By STEPHANIE RAETHEL in Canberra

Vacant Crown land makes up less than 1 per cent of Oueensland and NSW.

South Australia has the largest areas of parks and reserves, with about 20 per cent of the State.

Administrative Services Minister senator Bob McMullan, a member of the Government's Mabo subcommittee, said that while the map did not show where native title existed, its release should help to end confusion over the issue.

"In the short term, sometimes people peddling myths can prevail for a short time," he said.

"They can create fear and they can create a climate of antagonism and apprehension such that the facts are hidden behind a cloud of distortions.

'There has certainly been no shortage of attempts to create confusion."

Senator McMullan said the map made it clear the overwhelming majority of the land where Australians lived and wanted secure titles was "absolutely secure" from any claims based on the High Court decision.

But Australian Mining Industry Council assistant director Geoffrey Ewing said Aboriginal people could assert native title over many different types of title and the Government must validate all titles.

He said Aboriginal people owned 14 per cent of land in Australia and the Government needed to look at what was an appropriate level of land owned by Aboriginals given their proportion in the population.

Daily Telegraph Mirror 2/9/93



LAND RIGHTS

Whole group discussion:

Use OHTs of Handout 8 (map of Northern Territory p. 14) and Handout 2 (the "Mabo Australis" map). The group will need to have handouts of both these maps. Timing of distribution will be individual.

Prompt Questions:

How do the areas of land under Aboriginal control in the Northern Territory match up with the Mabo Australis map?

What variations can be seen?

What are possible explanations for any variations?

The text associated with handout 7 is not obviously connected to the map. The map informs the text rather than the other way around. Try not to labour over the text.

Scale:

There are figures to be worked in handout 7. Estimations of percentage or fractional land areas in the Northern Territory could be discussed with reference to the "Mabo Australis" map. This would involve students in quite a lot of spatial comparisons. This could lead to activities on scale in maps.

None of the resource maps has a scale attached. Comparisons with maps of Australia and of the Northern territory in an atlas could lead to comparative measuring and perhaps an attempt to work out a scale for any or all of the maps in this section.

Critical Map Comparison:

A further set of comparisons can be made between handouts 7 and 8.

An examination of handout 8 should show up the direct relationship between the distribution of Aboriginal groups in the northern half of the Northern Territory and the areas of land which are held by them. In the northern part of the Northern Territory Aboriginal communities (handout 8) are largely located within land granted to Aborigines. Look at the cluster of communities in Arnhem Land. Name others in northern Northern Territory. This does not occur in the central and southern half of the Northern Territory. Questions about why this variation exists and what might happen under the Mabo legislation should arise fairly naturally from this discussion. That there are no obvious solutions to the problem provided within these resources leaves a possibility for many and varied solutions to be suggested by students working as a class, in small groups, in pairs or individually.



12

These maps provide opportunities for language work and discussion on and around the use of Aboriginal group and place names and their relationship to European place names eg Ayers Rock versus Uluru. Dreamtime stories, Aboriginal art from the various community groups working in the Northern Territory, the impact of tourism on traditional indigenous culture can all be discussed with reference to these resources.

Assessment tasks could include:

- describing and/or working out scales for maps
- using scale in an atlas to work out distances between different groups, the areas of tracts of Aboriginal land
- listing and comparing Aboriginal and European place names by finding and collecting information from these resources and atlases
- describing variations in the use made of natural resources at the Top End and in the Centre (both Aboriginal and non-Aboriginal resource exploitation could be discussed with comparison and contrast where appropriate).

Future Directions:

- working out a holiday schedule/itinerary for a visit to, eg Kakadu National Park/Uluru, using materials from eg tourist brochures/travel agents/the Northern Territory Tourism authority. (See the Unit of Work on planning an excursion in the CAFE Manual, Vol. 6, Teacher Resources for lots of activities.)
- costing an excursion to a local Aboriginal place of significance.



Numerous Connections

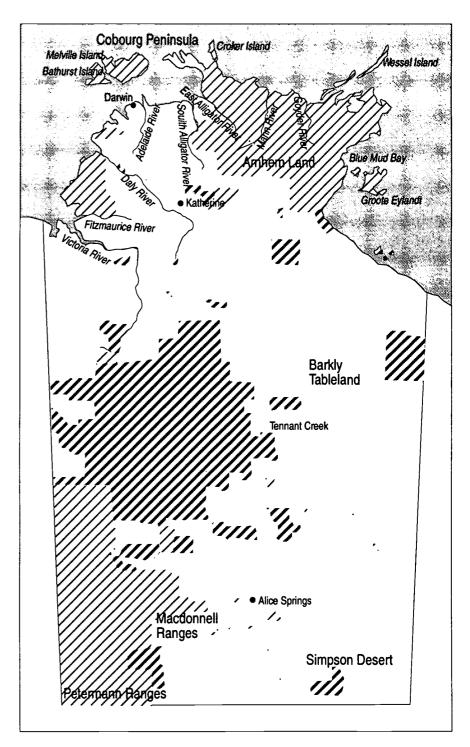
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Land rights

The Aboriginal Land Rights (Northern Territory) Act was passed in 1976 by the Fraser Liberal-National Party Government. This Act resulted from the report of the Aboriginal Land Rights Commission headed by Mr Justice Woodward, in 1973-74, and from the previous Labor Government's Aboriginal Land (Northern Territory) Bill which only failed to become law because of the double dissolution of Parliament in 1975. The aims of land rights legislation, according to the Second Report of the Aboriginal Land Rights Commission, included:

- simple justice for people deprived of their land:
- the provision of a land base for an impoverished people who had no real opportunity to achieve economic equality with other Australians; and
- the maintenance and enhancement of Aboriginal people's sense of spiritual and cultural identity.

The Act gave Aboriginal people inalienable freehold title to all Aboriginal reserves (about 19 per cent of the Territory) and a mechanism whereby they could claim unalienated Crown land. Claims are heard by an Aboriginal Land Commissioner (currently a judge of the Federal Court) and claimants must be able to demonstrate traditional ownership of the land under claim. Aboriginal land owners are able to limit incursion on to their land for mineral exploration or commercial development. The Act also provides for the payment of 'royalty equivalents', amounts equivalent to the royalties received by the Commonwealth (with respect to uranium) or the Northern Territory Government (other minerals) from mining activities on Aboriginal land. These royalty equivalents are paid into the Aboriginals Benefit Trust Account (ABTA) and then used for two main purposes-to fund Aboriginal Land Councils (statutory authorities that administer Aboriginal land on behalf of traditional owners) and as compensation to Aboriginal people living in areas affected by mining. An all-Aboriginal Advisory Committee also makes recommendations on grants to Aboriginal communities in the Territory for a variety of economic, social and cultural purposes. These grants have to be approved by the Minister for Aboriginal and Torres Strait Islander Affairs. Under the Act at least 40 per cent of royalty equivalents are paid to Land Councils, 30 per cent to areas affected by mining, and up to 30 per cent to Aboriginal communities or incorporated bodies on the advice of the Advisory Committee.



Map I Land granted to Aboriginals under the Aboriginal Land Rights (Northern Territory) Act 1976. as at 30 June 1992 Land granted to
Aboriginals Land
Trusts under
Schedules to the
Aboriginal Land
Rights (Northern
Territory) Act 1976

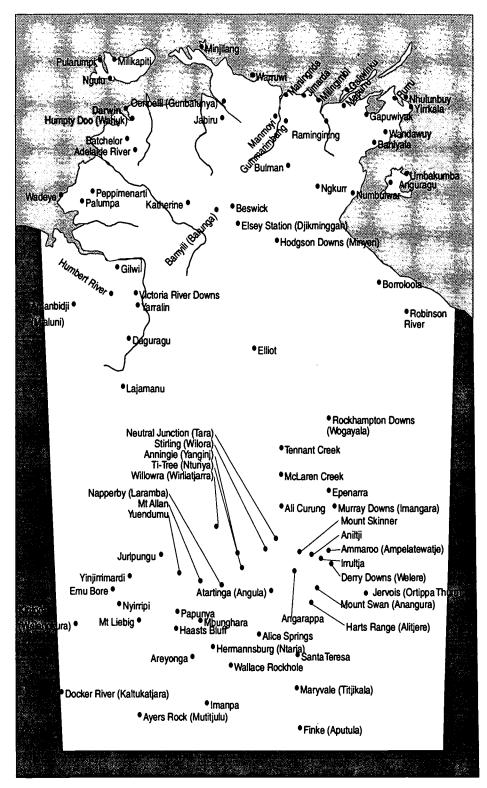
Land other than
Schedule land granted
to Aboriginals Land
Trusts before 30 June
1992

Numerous Connections

ATSIC Aboriginal People of the Northern Territory in Aboriginal People







Map 2 Aboriginals communities in the Northern Territory. Based on Aboriginal

Land and Population map, 2nd edn. Department of Administrative Services, 1988

ATSIC Aboriginal People of the Northern Territory in Aboriginal People



ABORIGINAL LIFE

Prompt Questions:

Are there Aboriginal Dreamtime sites in the local area?

Are they marked and protected as the Kaurna people's story is in South Australia?

If there are no Dreamtime sites known, what reasons might there be for this?

How might the High Court's Mabo decision affect Aboriginal Dreamtime sites which either:

- · exist and are generally known
- exist and are not public knowledge ie are only known to Aboriginal people from the area
 or
- are not currently known to exist but which may be discovered in the future eg by Aboriginal people researching their heritage or by archaeologists/anthropologists?

Small group work:

Refer to the map from Handout 9 and atlases, road maps of South Australia or other suitable resources and:

- estimate the distance travelled by Tjilbruke on the trail of his story
- locate the sites on a road map or atlas
- compare the current names used on the map with the site names in the language of the Kaurna people. Can you see any instances of similarities or differences which might be a result of Europeanisation of the Aboriginal name, mispronunciation of the Aboriginal name, spelling shifts, etc?
- discuss ways in which the location of springs named in the Dreamtime story might have been important to Aboriginal people eg seasonal movements in search of food.

Using scales provided on the maps try to work out the distance travelled by Tjilbruke.

Discuss ways of solving this problem.

Provide details of the method/s used by you or your group to work out the distances involved.

See handout 11.



Prompt Questions:

Use the map in handout 10 and any other resources to discuss:

- what are possible reasons for the variations in the size of the different group and culture regions in South Australia eg geographical (food and water supplies, etc), cultural (language differences, Dreamtime differences)?
- where can you find information about the different culture regions?
- are there similar variations in size in the Aboriginal groups' regions in your local area?
- what are the broad Aboriginal groups and regions of your state?
- are there any correlations you can find between region size, numbers of groups in a region, etc?
- are there any particular difficulties in getting local information?
- can you propose some possible reasons for the difficulties if they exist?

Assessment tasks could include:

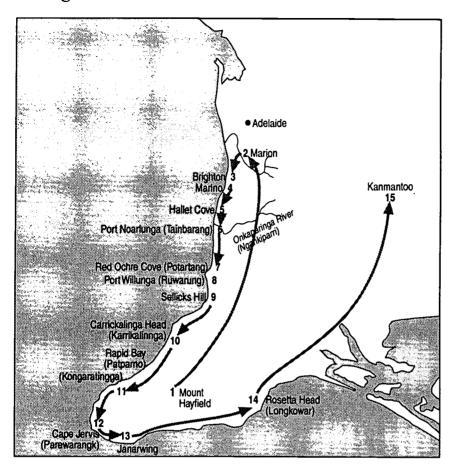
- oral or written, individual or small group report to the whole group
- oral or written contribution to a group or individual completion of a problem solving methodology.

Future Directions

- contribution to development of a class, group or individual resource folder of Aboriginal Dreamtime stories
- contribution to or development of an Aboriginal resource collection relevant to the local area
- demonstration of an understanding of the use of scales on a map etc.



Aboriginal life



Aboriginal people had lived on the Adelaide Plains for many thousands of years before the arrival of white people. In 1836 the area was occupied by an Aboriginal group identified by anthropologists as the Kaurna (pronounced cow-r-na) people who possessed a distinctive culture and language. At this time their population was estimated at 300 individuals.

The Kauma had an active ritual and religious life. The abundance of food and water in the area allowed large groups of people to gather for long periods to participate in ceremonies. The kuri dance and the palti dance are illustrated in watercolours by George French Angas. Regrettably, little of the rich Dreaming tradition of the Kauma people has survived. The Dreaming of Tjilbruke is one of the few examples passed down to us. In 1986 a group of Kauma descendants organised the marking of the sites related to this Dreaming. These sites form a trail along the coast south of Adelaide (see Map Z).

Early British observers were impressed by the excellent clothing worn by the Kaurna. In winter, possum-, wallaby- and kangaroo-skin rugs were worn as protection from the weather. The skins were prepared by pegging them out on claypans to dry. Ashes and sand were thrown on them to absorb the fat. The cloaks were elaborately incised on the inside. One well-known site for curing skins was the Aldinga Swamp.

Nets for fishing and trapping birds and larger game were widely used. For warfare the Kaurna had a variety of weapons. Shields, made from gum-tree bark and decorated with red and white pigments, were particularly distinctive.

Only a few Kaurna artefacts are held by the South Australian Museum due to the early destruction of Kaurna culture and the removal of the survivors to missions in other parts of the State. However, the Adelaide Plains still bear signs of Aboriginal occupation, although these sites are constantly under threat from vandalism and urban development. Map 2
The Dreaming of
Tjilbruke: creation of
the coastal springs

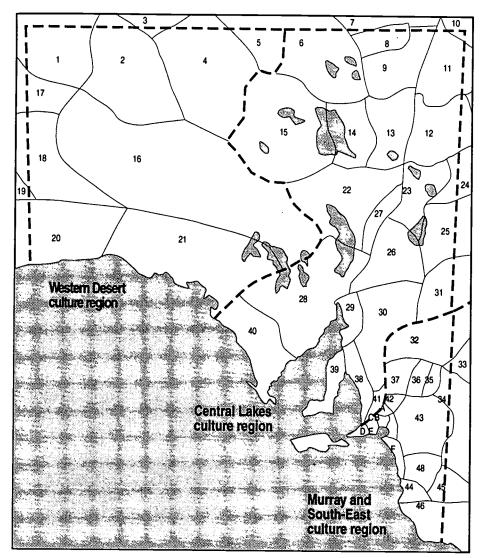
There is a memorial to the mythology of the Kaurna people at Kingston Park. It marks the area of one of the springs created in the Tjilbruke legend. The Tjilbruke Track Committee has marked all the remaining sites to Cape lervis with cairns bearing the relevant part of the story.

- 1
 Tjilbruke (pronounced chill-brookee) rose out of the
 ground near Mount
 Hayfield. One day he
 heard that his sister's
 son, Kulultuwi. had
 been killed near the
 Sturt River (Warri
 Parri) at Marion.
- 2
 He travelled to Warri
 Parri where he discovered that the boy
 had been killed
 because he had
 broken a strict taboo
 forbidding him to kill
 emus.
- The body of the young boy had been taken to Marion to be smoked and dried.
- 4
 Tjilbruke then seized the body and took it to a spring on the beach at Marino where the smoking process was completed.
- 5
 Tjilbruke took the body to a spot near Hallett Cove. He rested and was overcome with grief. His tears fell to the ground and a spring of water was created.
- 6
 He continued on his
 sad journey but cried
 once again near Port
 Noarlunga
 (Tainbarang).
 Another spring was
 created.

- At Red Ochre Cove (Potariang) he cried again and another spring appeared.
- Tjilbruke then went on to a place a few hundred metres south of the old Port Willunga (Ruwarung) jetty. The tide was out so he sat down on the damp sand and cried. creating yet another spring.
- 9
 He carried the body on to the beach near
 Sellicks Hill. Once again he cried, and a spring appeared in the sand.
- 10
 A small swamp near
 Carrickalinga Head
 (Karikalingga) marks
 one of his resting
 places.
 - 11
 He then went on to
 Kongaratingga where
 there is a small cave in
 the hillside. Belore
 reaching the cave he
 sat down and cried,
 creating another
 spring.
- 12
 Tjilbruke continued on to Cape Jervis
 (Parewarangk),
- 13
 From Cape Jervis he went on along the coast until he came to a cave called Janarwing. Here he deposited the body. Tjilbruke didn't emerge from the entrance of the cave —he came out of a crevice at the other end near Mount Hayfield.
- 14
 Tjilbruke walked to
 Rosetta Head
 (Longkowar) and
 changed into a glossy
 ibis (Tjirrbruki).
- 15
 His body became a rocky outcrop at Barukungga near Kanmantoo. This place was known as the place of hidden fire.

ATSIC Aboriginal People of South Australia in Aboriginal People





Map 3
Aboriginal groups and culture regions in South Australia at the time of the arrival of Europeans

1	Pitjantjatjara	19	Pindiini	38	Kaurna
2	Jangkundjara	20	Mirning	39	Narangga
3	Matuntara	21	Wirangu		Nauo
4	Antakirinja	22	Kujani	41	Peramangk
5	Aranda, Lower	23	Pilatapa		Nganguruku
	Southern	24	Wadikali		Ngarkat
6	Wongkanguru	25	Ngurunta		Meintangk
7	Jeljendi		Jadliaura		Marditjali
8	Karanguru	27	Adnyamathanha		Bunganditi
9	Ngameni	28	Pangkala	47	Unoccupied
10	Karuwali	29	Nukunu	48	Potaruwuti
11	Jauraworka	30	Ngadjuri		•
12	Jandruwanta	31	Wiljakali	Ng	arrindjeri
13	Dieri	32	Danggali	Α	Ngaralta
14	Tirari	33	Maraura	В	Portaulun
15	Arabana	34	Ngintait	С	Warki
16	Kokata	35	Erawirung	D	Ramindjeri
17	Nakako	36	Ngawait	E	Jarildekald
18	Ngalea	37	- ·	F	Tanganekald

ATSIC Aboriginal People of South Australia in Aboriginal People



ABORIGINAL LIFE

1.	Find the area covered by the map in handout 9 in your road map or atla	ıs.
	Make sure that it has a scale	

2. List any methods that you can use to estimate the distance travelled by the Tjilbruke on his Dreamtime journey. Use these methods and then write down your estimates.

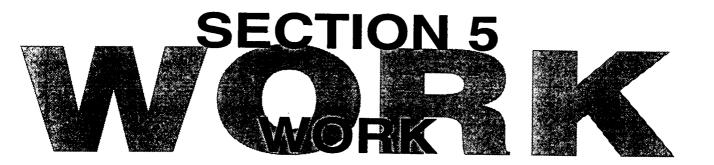
method	estimated distance
	· · · · · · · · · · · · · · · · · · ·

3. List any methods that you can use to measure the distance travelled by the Tjilbruke on his Dreamtime journey. Use these methods and then write down your answers.

me	thod		measured distance	
		·		
				_

Did you get different answers? Why?





Work ... what is it and who does it?

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LEARNING OUTCOMES

In the context of this study students will:

- set literacy and numeracy goals
- gather information and mathematical data
- interact with others and in groups
- · reflect on learning
- perform procedures
- gather information and mathematical data from texts
- present information and mathematical data in texts
- use mathematics creatively
- use language creatively
- use technology
- solve problems
- increase confidence and participation
- make choices.

TOPICS

Language/Literacy

- opinion writing
- questioning
- critical literacy

Numeracy

- percentages
- ratio
- tables
- scientific calculator
- critical numeracy

RESOURCES

- teacher notes 1–2
- handouts 1–13

to be supplied by teacher:

• scientific calculators

FUTURE DIRECTIONS

- Women in Australia ... a snapshot (section 6)
- Women in Management Capitalising on Diversity (handout 12)
- create own survey on women and work; Aboriginal and TSI and work; NESB people and work.



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	Activities	Resources	Assessment
Introduction	Work in Australia brainstorm issues around work in Australia in small groups	teacher notes 1	
Language/ Literacy/	 guess facts about work in Australia 	handout 1	
Numeracy	check answers	handout 2	read table
Numeracy	• calculate percentages*	handout 3	complete handout
	What is work?		
Language/ Literacy	brainstorm issues: what is work? why do people work?	handout 4	participation in discussion
	• define employment in small groups***		
	 read and critically analyse definition of employment 	handout 5	:
	 construct a table of students' work and employment 		
	House spouse		
	discuss and list issues relating to unpaid work	handout 6	
	• complete handout	handout 7	

Numerous Connections



1

	Activities	Resources	Assessment
	Women and Work		
Language/ Literacy/ Numeracy	discuss issues relating to women's paticipation in the workforce		participation in discussion
	complete handouts		completion of worksheet
	discuss issues relating to other under-represented groups eg Aboriginal and TSI	handouts 8, 9	
	Ratio and Data		
Numeracy	use scientific calculator**		
	calculate ratios	handout 10	
	Work and Diversity		
Language/ Literacy	discuss issues raised in cartoon	handout 11	
	read article	handout 12	
	create your own survey	handout 13	
Reflection	Some issues for discussion		
	discuss issues raised		
	was there any conflict during this study?	teacher notes 2	
	what was the source of the conflict?		
	how was this resolved?		

additional activities

- * percentages Maths a New Beginning pp FA 1-20
- ** calculator use Maths a New Beginning pp EC 19-44
- *** Bee, B 1989 Women and Work pp 1-49

The concept for this section was developed by Sue Lord.



WORK IN AUSTRALIA

Issues that could be discussed:

full-time work

part-time work

shift work

overtime

salaried employment

waged employment

paid work

unpaid work

casual work

outwork



WORK IN AUSTRALIA QUIZ

Read the following questions and estimate the answers. You are not expected to know all of the answers. Discuss the questions with some other students.

1. What is Australia's population?

15 m

16 m

16.5m

17 m

17.5m

18 m

2. How many of these people are 15 years and over?

12m

13m

14m

15m

16m

3. How many people were working in Australia in July 1995?

7_m

8m

8.5m

9m

9.8m

10m

4. What percentage of people working in Australia in 1995 were:

• male

45%

47%

49%

51%

53%

55%

female

45%

47%

49%

51%

53%

55%

5. What percentage of people unemployed in Australia in 1995 were:

male_

female__

born outside Australia _____ Aboriginal or Torres Strait Islander_

6% 20% 7% 25% 8% 30%

10% 35% 12% 40% 15%

Look at the tables in handout 2 and check your answers. You will need to find out about the population of Australia from somewhere else. Where can you check this figure?

Were your answers close to the correct answer?

Were you surprised by the correct answers?

Why/why not?

WORK FACTS AND FIGURES

Table 1. Civilian Population - July 1995

	males	females	married females	
Civilian population age 15 years and over	6,962,000	7,178,500	4,186,500	
Percent of total	49.23	50.77	29.61	

Table 2. The Labour Force - July 1995

	males	females
Labour force	5,136,600	3,866,500
Percent of labour force	57	43
Participation rate	73.8	53.9
Participation rate persons born outside Australia	70.7	48.4
Unemployment rate	8.4	7.2
Unemployment rate persons born outside Australia	10.3	8.8

Table 3. Employment: Persons Full-tme and Part-time - July 1995

	males	female	married females
Number in employment	4,704,200	3,589,500	2,220,400
Percent of total empoyment	56.72	43.28	26.77
Number in full-time employment	4,204,500	2,064,900	1,202,700
Percent of full-time employment	67.06	32.94	19.18
Number in part time employment	499,700	1,524,400	1,017,800
Percent of part-time employment	24.69	75.31	50.28

Table 4. Unemployment: Number and rate - July 1995

	males no	males %	females no	females %
Total unemployed	423,400	60.94	277,200	39.06
Aged 15-19	76,300	54.73	63,100	45.27
Aged 20 and over	356,100	63.45	214,100	37.55
Looking for full-time work	383,100	66.06	196,800	33.94
Aged 15-19	50,400	58.40	35,900	41.60
Aged 20 and over	332,700	67.40	160,900	32.60
Looking for part-time work	49,300	38.01	80,400	61.99
Aged 15-19	26,000	48.87	27,200	51.13
Aged 20 and over	23,300	30.46	53,200	69.54

Women's Bureau, 1995 Women and Work, Vol 6, No 2. pp 12-13.



Table 5. Average Duration (weeks) of Unmeployment by Age - July 1995

age	males	females	persons
15-19	26,700	28,500	27,500
20-24	44,400	45,900	45,000
25-34	60,400	43,000	54,000
35-54	84,200	58,000	73,700
Total (includes 55 and over)	62,100	46,700	56,1 00

Table 6. Labour Force by Birthplace and Gender - July 1995

		Labour Force		Participation Rate		Unemployment Rate	
	males	females	males	females	males	females	
Born in Australia	3,383,200	2,995,200	76.1	57.1	7.8	6.7	
Born outside Australia	1,304,600	871,300	70.7	48.4	10.2	8.8	
Main English Speaking Countries	563,500	394,100	75.3	55.2	6.9	5.7	
Other Countries	741,100	477,200	67.6	43.9	12.7	11.3	
Oceania	138,600	98,400	85.8	62.4	9.0	7.9	
New Zealand	110,100	75,300	86.4	63.7	8.1	6.8	
Europe and former USSR	765,800	482,100	67.1	45.4	8.1	7.2	
Germany	37,900	27,300	64.1	44.3	13.1	6.1	
Greece	36,400	24,700	58.4	41.2	3.9	11.4	
taly	80,100	33,000	57.1	27.4	7.9	5.2	
Netherlands	29,500	19,200	68.1	48.3	2.1	6.5	
UK and Ireland	405,000	277,900	72.1	51.8	6.8	5.3	
Former Yugoslav Republics	62,500	37,200	67.6 ·	46.2	6.8	5.3	
Middle East and North Africa	65,800	32,100	67.6	46.2	12.1	9.9	
_ebanon	26,300	10,500	72.3	30.6	29.8	18.4	
Southeast Asia	124,400	100,000	71.0	48.3	19.7	13.0	
Malaysia	22,900	19,100	74.0	60.2	10.2	6.0	
Philippines	14,000	26,400	68.0	54.6	6.3	5.9	
Vietnam	53,300	25,200	75.8	39.6	31.0	25.4	
Northeast Asia	64,300	49,600	66.9	47.8	8.9	8.0	
China	32,700	23,000	74.2	51.4	11.3	6.6	
The Americas	51,600	43,200	83.6	65.6	5.6	6.6	
ndia	23,700	16,700	80.3	52.4	6.6	9.8	
Other	93,900	66,000	81.8	58.6	11.0	10.6	

Women's Bureau, 1995 Women and Work, Vol 6, No 2. pp 12-13.



Table 7. Aboriginal and Torres Strait Islanders Labour Force Status by Gender - 1994

	_		
Status	females	males	
Employed			
Non-CDEP	28,400	20,000	
CDEP	11,500	5,200	
Total	39,900	25,200	
Unemployed	24,100	16,100	
Unemployment rate (%)	37.7	39,000	
Total Labour Force	64,000	41,300	
Not in labour force	24,600	51,700	
Participation rate	72.3	44,400	
Total	88,500	92,900	

Table 8. Employed Persons by Occupation - May 1995

Occupation	females no	females % share
Managers and Administrators	216,700	24.59
Professionals	506,600	44.09
Para-professionals	223,100	47.79
Tradespersons	129,000	10.82
Clerks	1,062,900	78.86
Salespersons and personal service workers	898,800	64.70
Plant,machine operators and drivers	81,400	14.00
Labourers and related workers	439,200	35.93
Total	3 557,700	43.22

Women's Bureau, 1995 Women and Work, Vol 6, No 2. pp 12-13.



Numerous Connections

7

Table 9. Employed persons by Industry - May 1995

Industry	males	females	female %
Agriculture, forestry, fishing and hunting	269,300	126,500	31.96
Mining	78,300	10,600	11.92
Manufacturing	811,600	295,600	26.70
Electricity, gas and water	71,600	12,300	14.66
Construction	516,800	89,000	14.69
Wholesale trade	355,900	162,100	31.29
Retail trade	588,600	610,900	50.93
Accomodation, cafes and restaurants	176,900	217,000	55.09
Transport and storage	303,000	82,400	21.38
Communication	108,300	44,700	29.22
Finance and insurance	133,900	187,000	58.27
Property and business services	428,400	363,300	45.91
Government administration and defence	214,000	156,400	42.22
Education	196,300	382,200	66.07
Health and community services	177,500	569,100	76.23
Cultural and recreational services	98,700	95,000	49.04
Personal and other services	144,100	153,000	51.50
Total	4,673,100	3,557,700	43.22

Table 10. Higher Education Enrolments by Gender and Place of Birth

Country of Birth	male students	female students	females % share
Asia/Middle East	24,388	20,465	45.63
Europe	19,322	22,608	53.92
Africa	3,305	3,225	49.39
Americas	3,214	3,717	49.39
Carribean Islands	70	79	53.02
Atlantic Ocean Islands	8	16	66.67
Indian Ocean Islands	311	267	46.20
Not specified	3,444	2,927	45.94

Women's Bureau, 1995 Women and Work, Vol 6, No 2. pp 12-13.



PERCENTAGES AND THE SCIENTIFIC **CALCULATOR**

In the Work - Facts and Figures statistics 14,140,500 people were surveyed (see handout 2 table 1) and from that the percentage of males and females was calculated. Can you check that their calculations were correct?

Estimate the answers first, then use your calculator to check.

To use your scientific calculator, put in

- 14,140,500 50.77 shift a) and you should get 7,179,131.85 (females)
- 14,140,500 49.23 shift b) and you should get 6,961368.15 (males)

Why are these figures for females and males different from the figures in Table 1?

Activity 1- table 2 (handout 2)

Your total labour force is 9,003,100 people.

Find out how many females there are working if 43% of your total labour force is female.

Find out how many men there are working if 57% of your total labour force is male.

Find out how many women there are in Australia if the participation rate for women is 53.9%

That leaves 46.1% of women not in the work force. How many women is this?



Activity 2 - table 9 (handout 2)

In table 9 the percentage of females in each industry has been calculated. How do you think this was done?

If you said it was a four step process, you'd be right! Let's look at the fishing and agriculture industry as an example:

Step 1 identify number of females in industry 126,500

126,500 + 269,300

- Step 2 calculate total number of people employed in industry by adding males and females
- Step 3 calculate the fraction of women employed in industry out of the total population by dividing number of women by the total population in the industry 126,500 ÷ 395,800
- step 4 multiply the answer in step 3 by 100 to get 31.96% of females in the fishing and agriculture industry or when using a scientific calculator, press shift =

RULE: Any fraction multiplied by 100 always gives a percentage answer.

To do this on the scientific calculator press:

To check your answer

$$395,800$$
 x 31.96 shift $\frac{\%}{=}$

should give you 126,500 (females)

10

Follow the 4 steps to find out the percentage of men in each industry.

Compare and write the ratio of men to women in each industry.

Was there a quicker way to find out the percentage of men in each industry? How would you do it?

Health and Community Services employ a lot of women.
What types of jobs would they include?
Why do you think so many women are attracted to the industry?

The Construction Industry has very few women. What types of jobs would they include? Why are women not employed as much in this industry?



Activity 3 - table 8 (handout 2)

A total of 8,230,800 people were surveyed by Occupation. Can you work out how many men are in each occupation?

If there are 24.59% women as managers

Step 1
$$100 - 24.59 = 75.41\%$$
 must be men.

$$[8,230,800]$$
 x $[75.41]$ shift $[\%]$ =

Using the 2 steps above, work out the number of men in each occupation.

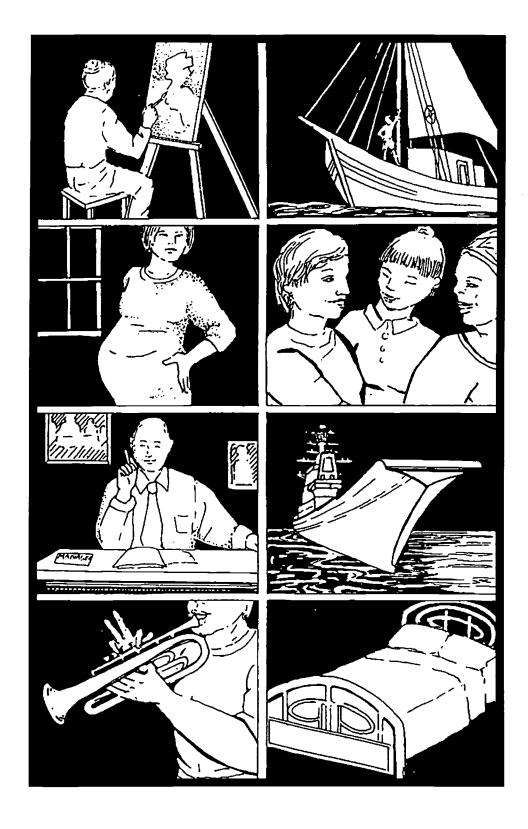
Why aren't women attracted to the trades? Consider: years of training, hours of work, childcare, cleanliness, industry attitudes to women doing "men's work".

What attracts women to clerical work, sales and personal services? What would need to change to attract more men? Consider money, conditions, prestige, career path.

What do managers and administrators need to do to attract more women? Consider working hours, job sharing, childcare, flexibility, training - availability and styles of delivery, management styles - male v's female, "game playing".



WHAT IS WORK?



WHAT IS WORK?



Bee, B., (1989) Women and Work



WHAT IS WORK?

Labour Force Definitions

Employed: Persons aged 15 years and over who, during the reference week:

- (a) worked for one hour or more for pay, profit, commission or payment in kind in a job or business or on a farm;
- (b) worked for one hour or more without pay in a family business or on a farm;
- (c) were employees who had a job but were not at work and were: on paid leave; on leave without pay for less than four weeks up to the end of the reference week; stood down without pay; on strike or locked out; on workers' compensation and expected to be returning to their job; or receiving wages or salary while undertaking full-time study;

or

(d) were employees, self-employed persons or unpaid family helpers who had a job, business or farm, but were not at work.

Employees: employed persons aged 15 and over who worked in their main job for an employer for wages or salary or in their own business (either with or without employees) if that business was a limited liability company.

Full-time workers: employed persons who usually worked 35 hours or more a week and others, who although usually working less than 35 hours a week, worked 35 hours or more during the reference week.

Part-time workers: employed persons who usually worked less than 35 hours a week and who did so during the reference week.

Women's Bureau, 1995 Women and Work, Vol 6, No 2.



HOW MUCH IS A HOUSE SPOUSE WORTH?

The Bureau of Statistics, which recently completed a survey on the subject of house spouses, says the average homemaker would earn about \$400 a week if she, or he, were paid at award rates for jobs such as cleaning, cooking, childcare, bill paying, shopping and gardening.

But according to Professor Jacqueline Goodnow, who is completing a five-year study into household work, the bureau's figures are too low, both in terms of hours worked and the value placed on the job.

The bureau estimates that married women not in the labour force work an average of 95.5 unpaid hours a fortnight, which would attract about \$8.68 an hour in the paid work force.

Unemployed males do 51.7 unpaid hours a fortnight, with an imputed value of \$9.49 an hour.

"I think that's a rather low-level rate for what is often a management-level job," says Professor Goodnow from the School of Behavioural Sciences at Macquarie University. "I doubt whether that sort of money would even pay for a cleaner."

The bureau's estimates are very different from two earlier surveys carried out by a private researcher. Two years ago a national study by a firm of investment advisers put a price of \$692 a week on a homemaker's head. Adjusted for inflation, that would now be just over \$800 a week - or \$41,800 a year.

A 1985 study by the Prudential Assurance Company estimated it would cost \$34,000 a year to employ someone to do all the chores performed by the average housewife with small children. At today's rates that's equivalent to \$47,000 a year, or \$903 a week.

Dr Duncan Ironmonger, the director of the Institute for Applied Research on the Future at Melbourne University and editor of a book on household work, says it is widely recognised that unpaid housework would add an extra 60 per cent to the country's Gross Domestic Product if it were included in national economic statistics.

Extensive research also shows that we collectively devote about 217 million hours a week to paid work (70 per cent of which is done by men).

"Clearly the national statistics on which so many government and business decisions are based are all blatantly deficient. They're quite literally only showing half the story," Professor Ironmonger says.

Norrish, D. and Lord, S. (1989) Undoing Some Maths Knots



HOW MUCH IS A HOUSE SPOUSE WORTH?

- 1. Read the article How much is a house spouse worth? (handout 6).
- 2. Find these financial terms in the article and see if you can work out what they mean:
 - paid at award rates
 - an imputed value
 - · adjusted for inflation
 - the country's Gross Domestic Product
- 3. Dr Ironmonger says:

"Clearly the national statistics on which so many government and business decisions are based are all blatantly deficient. They're quite literally only showing half the story."

Talk about what you think this means.

What is the other half of the story?

4. This article was written in 1989.

What has changed since then?



WOMEN AND WORK

Discuss the following questions with other students and record your answers below.

1. What was the participation rate of women in the workforce in Australia in July 1995? The table on handout 2 will help you.

2. Do you think that this participation rate of women has always been the same? Why/why not?

3. Do you think that the participation rates of women in employment are the same for each industry?

Why/ why not?

Look at handout 2, tables 8 and 9 and discuss 2 industries.

4.	How do you think that the participation of women in the workforce in Australia
	compares to that rate in overseas countries?

Why?

5. Look at the graph on handout 9.

This shows the female share of the labour force 1970-1993 worldwide.

From the graph fill in the table below.

Area	1970	1993
Sub-Sahara Africa		
East Asia Pacific		
South Asia		
Middle East/North Africa		
Latin America/Carribean		
High Income countries		

6. What do you notice?

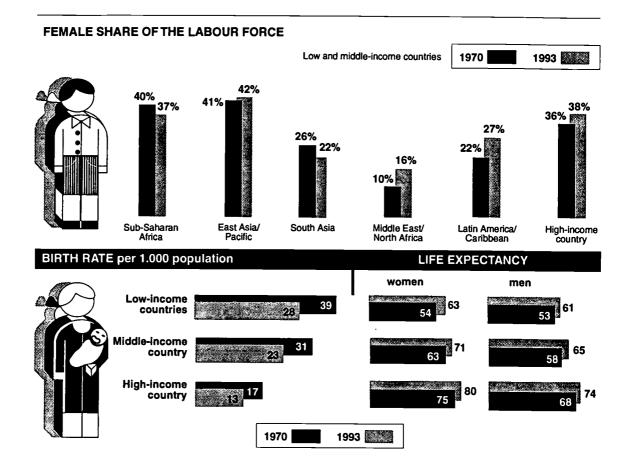
7. Why would this happen?

Look at the Birth Rate graph and the Life Expectancy graph and see if they give you some answers.

8. What is meant by 'High Income Countries'?



WOMEN AND WORK





WOMEN AND WORK

Ratio and Data Interpretation

* Use the "Work - Facts and Figures" (handout 2)

Ratio is the comparison of one thing to another eg. men compared to women, dollars to cents. Sometimes there are several things being compared eg. mixing cement

	coarse aggregate		sand		cement
	4	:	2	:	1
or baking a cake	Flour		sugar		butter
	2	:	3/4	:	1/2

- 1. Using the tables on handout 2, find the ratio of:
- males to females (table 1)

What does this tell you about the population of women compared to men?

• men to married females? (table 1)

What are some reasons why there are less married females than total number of females?

If there are so many single women, why aren't all the men married?

What do these figures not tell you?



2. Using table 2 on handout 2, complete the following table:

		males	females
(1)	participation rates (line 3)		
(2)	participation rates persons born outside Australia (line 4)		
(3)	percentage difference between (1) and (2)		
(4)	ratio (1): (2)		

Who is included in the term 'participation rate'?

Why is there a percentage difference between the participation rate and the participation rate of persons born outside Australia?

What might have contributed to these percentage differences?

Compare the percentage difference of males to females. Why are they different?

What can be done to improve these differences?

- 3. Using table 6 (handout 2)
- Some ratios can be written simply eg 2: 1. What is the simple ratio for the following:

Australian females: New Zealand females

Greek females: Italian females

Greek males: Greek females

Australian females: Australian males

Females from India: Vietnam: China: Philippines

- Some ratios can be simplified eg. 3: 6 can be simplified to 1: 2. This can be done on the calculator by using the ab/c key as the ratio dots. So you would put in 3 ab/c 6 and you will get
 - 1 _ 2 The _ mark is the calculator's version of your ratio dots :

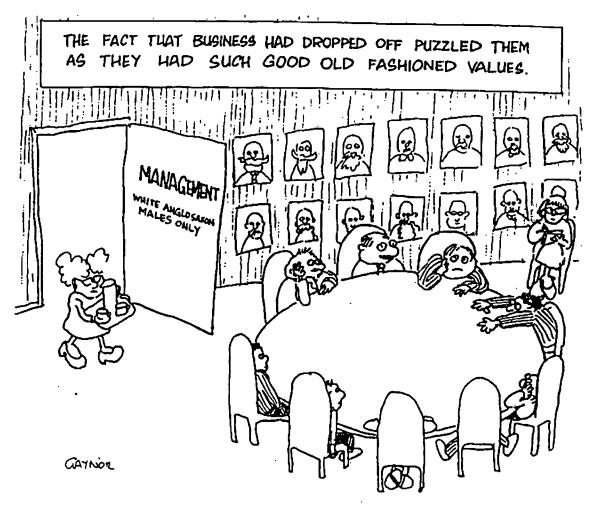
Use your calculator to simplify these:

- i) 10:5
- ii) 6:10
- iii) 2:4
- iv) 6:8
- v) 4:8
- vi) 10:15
- vii) 10:20
- viii) 4:12
- ix) 3:15
- x) 4:12.



WORK AND DIVERSITY

Look at the cartoon below. What is it saying?



Women's Bureau, 1995 Women and Work, Vol 6, No 2.

The cartoon came from an article that had the heading 'Capitalising on Diversity'. What do you think is meant by this?



ENTERPRISING NATION:

Capitalising on Diversity

The Task Force is convinced that there is an explicit challenge and presently an excellent opportunity to influence circumstances so that women have genuinely equal access to management positions." After almost three years of consultations, research, study missions and analysis, the Industry Task Force on Leadership and Management Skills has released Enterprising Nation: Renewing Australia's Managers to Meet the Challenges of the Asia Pacific Century, a report recommending urgent action to upgrade Australia's management performance.

The report highlights the lack of depth in Australian management ranks and identifies several key challenges to improving our management performance. One such challenge is to capitalise on diversity—ensuring that management positions reflect Australia's multicultural population and provide more women with better access to the upper ranks.

An exhaustive program

The Industry Task Force on Leadership and Management Skills was convened by the Hon. Simon Crean, Minister for Employment, Education and Training, to advise on measures to strengthen management development and business leadership within Australian enterprises. It was asked to identify effective management practices in a range of areas, raise awareness of the need for improved leadership and management skills, and foster enterprise commitment to management development. Its terms of reference concentrated on private sector management, however many of its findings and recommendations are also relevant to the public sector.

The I2 Task Force members were drawn from major corporations, small business, higher education, and the human resource, consultancy and advisory sectors. They developed an exhaustive program—carrying out extensive consultations with enterprises,

industry groups, peak associations, individuals, relevant organisations and Australian and overseas institutions. The Task Force also organised and developed its own consultative forum, including conferences and seminars. An extensive research program was also conducted, comprising 27 separate projects and covering all areas of the Task Force's terms of reference. As well, the Task Force developed curriculum material for management educators and trainers.

How does Australian management rate?

The Task Force found that the best Australian managers, enterprises and managerial development processes are equal to the best in the world. However, in general, Australian management did not come out of this rigorous examination with flying colours. "In comparison with other countries in previous years, Australia's competitive performance dropped in the early nineties but is on the rise again, albeit slowly," the Task Force concluded. Task Force consultations and research indicate that Australia's managers do not have the education or skill levels of other major trading nations, and that most of our educational and training institutions are not providing world class services.

The World Economic Forum's 1994 World Competitiveness Report ranked Australia 18th out of 4I countries in terms of management. Our overall ranking was higher at 13, indicating that management performance is lower than our general competitiveness. Australia rated well for business efficiency, but scored poorly in entrepreneurship and innovation.

In a blind survey, 502 Asian managers in five countries with which we actively trade were asked to compare Australian managers with those in five competitor countries active in our region. Australian managers were ranked last in three areas: ability to look well into the future, entrepreneurial skills, and

technical skills. They ranked poorly in all the remaining categories, including management skills and cross-cultural skills. In comparison Japan, the USA and Germany rated well.

The Task Force also found that Australian managers have fewer formal qualifications than those of the world's major trading nations. Less than 30 per cent of Australian managers have degrees, compared with 60 per cent in Germany, over 70 per cent in France, and over 80 per cent in both Japan and the USA.

The glass ceiling: getting thicker

A particular Task Force finding was the need for cultural change in organisations and management, to broaden narrow mindsets and to encourage more creative approaches to management in general. A strong example of limited vision was poor management for diversity.

Noting that there are still few women at senior management level in Australia, the Task Force commented that "the glass ceiling appears to be thickening". The Task Force advocated reversing this trend, believing that "more women at senior levels will benefit enterprises and Australia economically". This was supported by research which suggests that women are well-placed to instigate different management styles more suited to today's organisations.

According to 1994 figures from the Employment and Skills Formation Council, women are also establishing small businesses three to four times faster than men. Women have proven very successful in small businesses, which require entrepreneurial and customer-oriented management skills. Task Force consultations, and anecdotal evidence from highly successful businesswomen who have left corporations, indicate that many women, frustrated by the glass ceiling in larger organisations have left to set up their own enterprises.

Numerous Connections



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Enterprising Nation identifies "capitalising on the talents of diversity" as one of the five key measures for upgrading management performance. Other recommendations included developing an enterprise culture, upgrading business services and vocation; education and training, achieving best practice management development in organisations, and reforming management education. The recommendation of capitalising on diversity focuses on the need for more female managers and managers from multicultural backgrounds. "Major improvements in management skills can be effected simply by opening up equal opportunities for these underutilised groups to attain the senior levels of corporate management."

The report recommends three major initiatives for capitalising on diversity:

- giving a higher priority to management for diversity in workplaces;
- as a short-term measure, developing a National Strategy for Women in Management;
 and
- ensuring that government agencies which give advice and assistance to the private sector, such as the Affirmative Action Agency and Aus-Industry are resourced to upgrade their educational and promotional roles in relation to management for diversity.

The proposed National Strategy for Women in

Management would identify industry targets for the year 2000, for the number of women in middle and senior levels of management, boards of directors, and academia. These five-year targets are intended as "realistic numbers for which to aim", not quotas, and should be developed and determined by the private sector itself. Industries and enterprises would set targets according to their particular circumstances, ie. there would not be uniform targets across the board. The Task Force envisages peak industry bodies-such as the Business Council of Australia, the Australian Chamber of Commerce and Industry and the Australian Institute of Company Directorsshowing leadership in setting targets.

Women should also be targeted for management development, which will assist more women to break the glass ceiling. The Task Force recommended that women should occupy at least 40 per cent of all places in management school courses. Where this is not the case, the Task Force recommends national targeting of scholarships and a fees arrangement where government and/or universities subsidise the system to enable industry to support two female employees for every male. This strategy has already been tested successfully in the vocational education and training area.

The Task Force also recommends the establishment of a database of women suitable for appointment to boards of directors. This initiative aims to counter the

measures over a limited period to promote change".

Facing the Asia-Pacific century
Asian economies are among the fastest
growing in the world. They are challenging
the traditional dominance "developed
world"—producing competitive
manufacturers and generating and

demanding world-class services.

An increasing proportion of Australia's merchandise exports are going to the Asian region rather than our more traditional markets such as North America and Europe. In 1972 only 45 per cent of Australian merchandise was exported to Asia—by 1994 this had increased to 60 per cent. Direct investment in the region by leading

Australian companies is also increasing, with nearly 70 per cent of Australia's top 20 companies operating or making major investments in Asia. The recent Asia-Pacific Economic Cooperation agreements to open up trade in the region have also contributed to the momentum for change.

The challenge for Australia is to keep pace with growth in the Asia Pacific region. Enterprising Nation has outlined a range of initiatives "necessary to sustaining and improving economic

activities and living standards for all Australians in the face of profound changes in the global business environment". The onus is now on Australian industry, governments, unions, workers and educational institutions to become "enterprising" in the broadest sense of the word.

Enterprising Nation is presented in three parts: the executive summary, the main report and the research report, which is presented in two volumes. The executive summary is available for \$7.95, the main report for \$29.95 and the research report for \$39.95, from Commonwealth Government Bookshops in capital cities.

THE FACT THAT BUSINESS HAD DROPPED OFF PUZZLED THEM AS THEY HAD SUCH GOOD OLD FASHIONED VALUES.

MANAGEMENT TO BE THE STATE OF THE STAT

common misconception that suitable women are not available, and to increase the number of women who influence the direction and development of Australian enterprises.

These initiatives, coupled with the "proper application of the merit principle", as well as better development and advancement opportunities, will allow women to take their place in the senior management ranks. But the Task Force concluded that poor management performance is such a critical issue for the Australian economy that "unless enterprises act more vigorously to promote women to senior levels then in the near future the Federal Government may need to contemplate more stringent, regulatory

Women's Bureau, 1995 Women and Work, Vol 6, No 2.

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WOMEN AND WORK

Creating your own survey

To create your own survey, you will need to make some decisions.

- What is the topic of the survey?
- What questions do I want to ask?
- Will they give me the type of answers I want do they address the issue?
- How many people will I survey?
- Who will I survey men? women? both? Aboriginal? NESB? old? young?
- How will I present the results tables? graphs? report?
- Is the survey balanced and unbiased?

Now you will need to:

- 1) write at least 10 of the questions that you think were asked in the Women and Work survey
- 2) develop a survey sheet to record your information on
- 3) go forth and survey!! Ask as many people as you can for their responses to your questions.
- 4) collate your results on to one sheet
- 5) draw some conclusions from your results
- 6) present your results in a suitable way (chart, graph, tables, report, presentation or talk).



Here are some questions to get you started.

	QUESTIONNAIRE						
	ere were you born?						
	at is your age? you work in paid employment?						
	YES NO						
4. If y	yes, what do you do?						
5. If 1	no, what do you do?						
6							
7. <u> </u>							
8							
9							
10							

Things to think about after the survey:

Did you come up with similar results to the Women and Work survey?

Why do you think that is?

- Consider: the number of people surveyed
 - time of day the survey was done
 - your local area
 - your questions.

Are there other issues to consider?



REFLECTION ON WORK

Issues to raise:

- women as carers of the elderly, people who are ill or children
- · unpaid work or voluntary work
- women in some cultures are expected to stay at home
- some men are embarrassed if their wives work
- · women often are unskilled workers or less trained compared to male colleagues
- childcare problems eg. unavailable, not long enough hours
- · shift work
- many overseas qualified people immigrate to Australia only to discover their qualifications are not recognised here
- women eg. farmers, often work with their husbands, but aren't recognised as "workers" and are not paid as such or covered by workers compensation, superannuation etc
- table 1 (handout 2) does not mention how many men are married
- because many families are traditional in their roles and expectations, many women don't have the time to put into careers or training.



SECTION 6 WOMENIN AUSTRALIA

Women in Australia ... a snapshot

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LEARNING OUTCOMES

In the context of this study students will:

- set literacy and numeracy goals
- gather information and mathematical data
- interact with others and in groups
- reflect on learning
- perform procedures
- gather information and mathematical data from texts
- present information and mathematical data in texts
- use mathematics creatively
- use language creatively
- use technology
- solve problems
- increase confidence and participation
- make choices.

TOPICS

Language/Literacy

- procedural text
- mathematical language
- summarising

Numeracy

- tables, graphs and charts
- percentages
- fractions
- estimation
- calculator
- large numbers

RESOURCES

- teacher notes 1- 2
- handouts 1-17

FUTURE DIRECTIONS

- explore issues affecting women in more detail eg workforce participation, marriage, political representation, life expectancy, birth rates
- anti-discrimination legislation
- families



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	Activities	Resources	Assessment
Introduction	Social issues affecting women • brainstorm issues	teacher notes 1, handout 1	contribution to
,	guess answerscheck answers	handout 2 table on handout 3	use of prior knowledge
Language/ Literacy/ Numeracy	 discuss maths concepts A snapshot of progress interpret table discuss validity of statements 	handout 3	evaluate mathematical data in context, summarise mathematical data from text
	list mathematical terms covered	mathematical data in table	critical evaluation of own and other students statements
Literacy	 Women in Australia read part 1 of article - together or individually discuss issues and students' personal experiences 	handout 4	
	 summarise changes read all of article highlight key phrases list main ideas in point form write summary 	completed handout 3 handout 5	demonstrate synthesis of summary and mathematical information to form new text take risks in
Numeracy	present information in table in other form eg pie chart	handout 6	expressing opinion



	Activities	Resources	Assessment
Numeracy	discuss how changes in scale can distort information presented		
Language/ Literacy/ Numeracy	Trading Places • discuss headline & photo	handout 7	discussion
Language/ Literacy/ Numeracy	Why girls want those jobs for the boys • read text, discuss concepts, read table	handout 8	discussion
	discuss vocabularycomplete worksheet	handout 9	student participation
Numeracy	 Who does what? find data in texts and complete calculations calculate percentages present data as pie graph* interpret and evaluate data/graphs 	handout 10	completion of worksheet
Language/ Literacy	Who should do what work? • opinion writing	model texts of exposition handouts 11,12	student production of text

2

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ATUTENT PROJUCTLY REC

	Activities	Resources	Assessment
Language/ Literacy	 Cut above the rest discuss headline read article write about skills and 	handout 13 handout 14	discussion report to group
	knowledgeread and write procedural text	handouts 15,16	conference text
Language/ Literacy	 Women, Men and Work discuss issues affecting men and women at work 	teacher notes 2 handout 17	

additional activities

* pie charts

Reasonable Force handout 8, 9

** cartoons

Reasonable Force handouts 1, 2.

The concept for this section was developed by Jill Finch, Terri Ryan and Leslie Stein.



WOMEN IN AUSTRALIA, 1970 - 1995

Discuss with students what might be in the article by looking at the headline and the captioned photo.

Introduce the objectives of:

- looking at social issues affecting women
- comparison using tables and text.

Brainstorm a list of issues which might be covered by the article.

Working individually or in pairs predict the answers (handout 2).

Emphasise that the guesses are relying on what students know now.

Check the answers against the table on handout 3

Discuss concepts of percentages, rates per 1000, pay as a percentage of ...



SUBURBAN HUMDRUM FIRED FIGHT AGAINST THE TRADITIONAL ROLES

Life for women has changed enormously over the past 25 years. SUSAN HORSBURGH takes a snapshot of life from 1970 and 1995



Action speaks
louder than
words ...
D'Aprano after
chaining
herself to the
Melbourne
Commonwealth
Building in
1969 in support
of equal pay for
men and
women—
Picture:
Spinifex Press.

The Weekend Australian



WOMEN IN AUSTRALIA 1970 - 1995

Before you read ...

Estimate the answers to the following questions. You are not expected to know all of the answers. At this stage, don't look at the article.

1.	The percentage	e of births to moth	ers under 25 in 197	70 was:
	24%	32%	46%	54%
2.	The percentage	e of births to wome	en under 25 in 199	3 was:
	10%	25%	36%	50%
3.	The percentage	e of women in the	workforce in 1995	was:
	10%	25%	54%	76%
4.	Women's pay	as a percentage of	men's pay in 1995	was:
	48%	65%	84%	100%
5.	The marriage r	ate per 1000 peopl	e in 1995 was clos	sest to:
	6	26	46	106
6.	Women's life e	expectancy in 1995	was:	
	72	81	90	
7.	The number of	women in the Ho	use of Representati	ives in 1995 was :
	0	2	10	14
8.	The number of	women in the Sen	ate in 1995 was:	

12

Check your answers using the table on handout 3

6

3

17

A SNAPSHOT OF PROGRESS

A SNAPSHOT O	F PROGRESS	
	1970	1995
Marriage rate (per 1000 people)	9.3	6.2 (1994)
Median age of brides	21	26
% of births to mothers under 25	46	25 (1993)
% of women in the workforce	38	54
Women's pay (as % of men's)	60	84
Women's life expectancy	75	81
Women in house of Reps	0	14
Women in the Senate	3	17

Write a sentence about each fact to explain what the figures are showing you. The first one is done for you.

Marriage Rate (per 1000 people)

Less people are getting married now each year compared to 1970.

Do this one together with your teacher and/or a partner:

Median age of brides "Median" age of brides means the "middle" age when all the ages are written down in order, eg. in this group of ages, 21 is the median or middle age of the ones given.

17	19	20	21	22	23	24				
							_			
Now try the	hese:									
Percentag		rths to	mothe	ers und	der 25					
_										
								_		

ERIC

Numerous Connections

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Percentage of women in the workforce
·
Women's pay as a percentage of men's
Women's life expectancy
Women in the House of Reps
Women in the Senate



WOMEN IN AUSTRALIA 1970 - 1995

t was about 1970 when war broke out in Australian suburbia. *The Female Eunuch* had just hit the book shops and women had begun questioning their preordained lot in life.

Eva Cox, a founding member of the Women's Electoral Lobby in 1972 and now co-convenor of the Women's Economic Think Tank, says the power struggle between the sexes meant the end of suburban tranquillity.

"Women were expected to go away, have babies and talk about knitting patterns and recipes and those who didn't feel like it were regarded as distinctly odd," Cox recalls.

"I can still remember some bitter confrontations ... the husbands saying: "But this is what you wanted!" and the wives saying: "It might have been what I thought I wanted but it's bloody boring!"

After Greer's book was released, Anne Summers addressed a seminar where a middle-aged woman confessed she had covered *The Female Eunuch* in brown paper and hid it among her shoes after her husband had forbidden her to read it.

Feminism was in its early stages in 1970, camped on the fringes of mainstream politics.

It was a time when salaries varied shamelessly between men and women, job advertisements were almost always gender-specific, divorced women could get the widow's pension if they were the "innocent" party in the marital breakdown and working mothers were accused of traumatising their latch-key children.

The politicised 60s had brought anti-Vietnam protests and the American civil rights movements, Woodstock and student riots in Europe. There was a palpable sense of change, and Cox says women had already begun to flow into the workforce by 1970 - she insists the women's movement was a reaction to social change, rather than a cause.

Regardless, the past 25 years have witnessed irrevocable changes to Australia's social landscape.

According to the (recently retired) Australian Statistician, Ian Castles, the author of Women in Australia, women made the most dramatic leap in status ever during this period - a leap reflected in legislation such as the 1984

Sex Discrimination Act and the Affirmative Action Act in 1988. The proportion of people living alone, defacto couples and one-parent families has risen - one of the main reasons being the Family Law Act 1975, which introduced no-fault divorce and sparked a sudden rise in the number of divorces and remarriages and a reduction in the duration of marriages.

oupled with this has been a trend towards later marriage and child-bearing and smaller family sizes - due to a rapid expansion in the use and efficiency of contraception and an acceptance of women's rights to pursue careers.

The "crude" marriage rate (marriages per 100 people) - which peaked at 9.3 in 1970 - fell to 6.2 in 1995, close to the 1930s all-time low, as Australians delayed marriage and opted for defacto relationships. The median age of grooms (29 years) and brides (26.6) has jumped five years over the past two decades.

The proportion of births to mothers under 25 years old almost halved from about 46 percent in 1970 to 25 percent in 1995, while that of mothers aged 30-34 almost doubled in the same period. And the proportion of exnuptial births - which accounted for 8 percent in 1970 - tripled to a quarter of all births by 1993.

During the past 25 years, education has increasingly replaced marriage as the key to economic independence.

More women than men are now enrolling in higher education and more women than ever are studying courses such as law and engineering. Castles says the increase in women's workforce participation has grown out of society's acceptance of their right to education, better contraception - and therefore control over family and career - technological developments which have resulted in jobs reliant on physical strength and a desire or need for additional income.

Now 54 percent of men are in paid employment compared with 38 percent of women and 83 percent of men in 1970.

But women's average weekly earnings are still lower than men's in all occupations, even those considered to be traditionally female.

The Weekend Australian



More than 20 years after the concept of equal pay for work of equal value was mandated by the then Conciliation and Arbitration Commission in 1972, wage parity is still elusive - partly due to women's interrupted working patterns.

n 1970, women earned 60 percent of their male counterparts' pay packets. Now it is about 84 percent for non-managerial women and 75 percent for those in managerial positions.

And for most women their workload still continues at home. The existence of the much-lauded Sensitive New Age Guy may be debatable but surveys show he certainly does not carry a mop. An Australian Bureau of Statistics study released this year painted the 90s father as more child-minded but showed the time spent on housework had changed very little since the early 70s.

"It appears it is the women who are doing the adapting, not the men." sociologist Michael Bittman says.

A survey in 1992 by the Bulletin also found women felt "shortchanged" and were angry about the inequality persisting in their lives.

As Summer points out in her introduction to the new edition of *Damned Whores and God's Police*, added pressures on women have meant an increase in drug use, including cigarettes and alcohol, as well as an alarming epidemic of eating disorders.

She says "it is too soon to sound the death knell of sexism as an organising principle of Australian culture and society".

"I think the country is still run far too much by men for men, "she says.

In 1970 there were three women in the federal Senate and none in the House of Representatives . By 1995 14 women had been elected to the Lower House (less than 10 percent) and 17 to the Upper House (22 percent).

Women's life expectancy has improved by six years since 1970 to an average age of 81 (75 for men) but in the same period the rate of breast cancer death has risen from 3 percent to 5 percent.

The gains since 1970 are unquestionable but the struggle for women's rights seems far from over.

Cox sums it up: "The status of women has improved but we've still got a long way to go."

"We need to change the cultures of workplaces and government boardrooms so that we place more emphasis on quality of life and less on the bottom line."

Feminism has been pushing that but it hasn't been listened to yet because there's too many bloody workaholic males who are too scared that if they get home early they'll have to do the washing up."



WOMEN IN AUSTRALIA, 1970 - 1995

Write a summary of the changes you think have happened to women over the period 1970-1995 from what you have seen.

You can also use ideas from the table: "A Snapshot of Progress"

- 1. Continue reading the article, highlighting or underlining key phrases and ideas as you read.
- 2. List the main ideas of the article in point form.

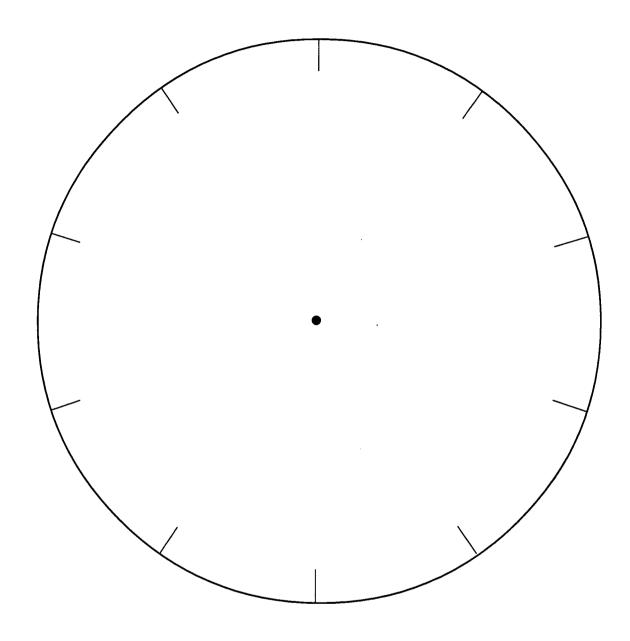
3. Write a summary of the changes that have happened to women in Australia from 1970 to 1995.

ERIC Full Text Provided by ERIC

Numerous Connections

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PIE CHART



adapted from: Numeracy on the Line



TRADING PLACES



Alice Ashton ... "I've had customers who just refuse to have a woman working on their car and others who can't believe I'm strong enough."

Photograph by DAVID HANCOCK

SMH 20/4/94



WHY GIRLS WANT THOSE JOBS FOR THE BOYS

Despite advances in equal opportunity, men continue to dominate industries where tradition has favoured brawn over brains, writes

ANITA CATALANO

There are 38,734 male apprentices and 5,161 female apprentices in NSW, says the Department of Employment, Education and Training.

Of those, 3,969 women are enrolled in TAFE courses compared with 38,000 men.

Jozefa Sobski, TAFE's director of women's policy programs, said that national trends revealed a decline in the total number of apprenticeships across all trades. Although TAFE encouraged women into its courses, it couldn't protect them from harassment in the workplace.

"Female apprentices cop a lot on the job," she said. "It really isn't easy for them."

Ainsely Dawrent, the marketing officer for Automotive Group Training, said it was the employees on the workroom floor who discouraged women into trades.

"It's not the girlie magazines, it's the attitude of other workers to women and I suppose other minority groups as well," she said.

Ms Dawrent, whose organisation recruits apprentices for the car industry, said that advertising directed towards women should also be a priority.

"When the Melbourne Metropolitan Board of Works directed their advertising of apprenticeships to women, recruitment rose by 37 per cent." she said.

In the automotive repair trades the figures for women are low - only 56 out of 7,002 motor vehicle apprentices are women.

At State Rail only 10 women are apprentices out of a total of 365. This year three female apprentices have been hired in telecommunications, painting and electrical mechanics/fitting.

Philippa Hall, the senior adviser to the NSW Sex Discrimination Commissioner, said that hiring women when they were older would be a way of increasing the number of female apprentices.

"Sometimes women in their 20s who have gone through a career in sales or clerical know they don't want to do it for the rest of their lives so they want to try something else," she said.

"There is a high dropout rate of girls who go into non-traditional trades partly because they have no idea what it's all about and they also tend to drop out because of the attitude of employers.



TRADE IMBALANCE:

The number of apprentices employed as at March 1994

en	nbiok	an a	s aı	.Ma	icn :	199	**************************************
Tr	ade	4.	W	ome	n.	M	en.
М	etals			13	7	12,7	80
1 00	ilding			100	4		12
	hicle	Sec. 17.			0	Min 25	57
A. 100	inting	360 Billion		alle: 3	7 7		95
						1000	
	ods			1,13	#		03
	ectric		X.	12	300 60		14
	airdre	- XXIII.		3,27	9	4	92
Fu	ırnish	ings		2	0	. 8	29
NS	URCE: \ W, Dept	viner	at of ir	dustri	al Rei	ations	. 3
Em	ploymai	st, Trei	hing i	ınd Fi	rther	Educe	tion.

"You must have good parents who don't turn you off, school mates as well as teachers and careers advisers who don't turn you off, before you can make a success of it."

Catherine Harris, director of the Affirmative Action Agency, suggested that schools should hold employment nights for parents and the community.

"We need role models to go out and educate people about these nontraditional careers," she said.

Peter McClelland, State president of the Construction, Forestry, Mining and Energy Union, blamed the poor female participation rate in his industry on the public perception of the building sector.

"The number of female apprentices is very low," he said.

"Past allegations of corruptions and royal commissions have disturbed the image and parents don't want their daughters to go into something like this."

SMH 20/4/94



TRADING PLACES

Understanding the text

- 1. Ainsley Dawrent works for Automotive Group Training. What does this organisation do?
- 2. What is the main problem of females working in trades?
- 3. What does Ainslely Dawrent think can be done to increase the number of women in trades?
- 4. In which three trade areas have female apprentices been hired at State Rail? Explain what these trade areas do.
- 5. Complete this table

Name	Job	Organisation
Jozefa Sobski		
	marketing officer	
		NSW Sex Discrimination
		Commissioner
	director	

Vocabulary:

6. Find the following words in the text. Underline them. If you're unsure of their meaning, try to guess from the text, check with a classmate or look them up in the dictionary:

apprentice recruitment priority
decline clerical harassment
affirmative action cop a lot perception



FINDING THE FACTS

Find the following information in the article:

Number of female apprentices in NSW	
Number of male apprentices in NSW	
Total number of apprentices in NSW	
How many of these women apprentices are doing TAFE courses?	
How many of the male apprentices are doing TAFE courses?	
Total number of apprentices doing TAFE courses?	

Making sense of the facts

What percentage of apprentices are male?

What percentage of apprentices are female?

What percentage of apprentices are doing TAFE courses?

What percentage of male apprentices are doing TAFE courses?

What percentage of female apprentices are doing TAFE courses?

Draw pie charts to show these figures.

What can you say about these statistics?



Warkshaa

WRITING OPTIONS

Should women be encouraged to enter non-traditional jobs such as motor mechanics?

ARGUMENTS FOR	ARGUMENTS AGAINST
•	
444	



WHAT'S YOUR OPINION?

Alice Ashton says some customers have a problem with her working on their cars. Why do you think this is? Do you think it is reasonable? What's your opinion?



CUT ABOVE THE REST

Mutita Sheargold learned to carve fruits and vegetables when she was a young child in Thailand.

It was not an unusual thing to do - people from Thailand have made fruit and vegatable carving into an art form.

When Mutita came to Australia, she put that knowledge and experience to good use.

Read her story ...



Ashbury food artist Mutita Sheargold

WHEN you're teaching people how to turn fruit and vegetables of people, from professional into works of art, you have to start from the beginning -- how to hold a knife.

That's according to Ashbury artist Mutita Sheargold, who ought to know - she was taught the art when just a child in Thailand, and now passes her knowledge on to others.

Her clientele includes a range chefs to community groups, in her home, at colleges and community centres.

It's not hard to see why she is being kept busy. Under Mutita's knife, formerly recognisable fruits and vegetables take on brand new forms.

Pumpkins become intricate sociation.

little bowls, watermeloss turn into lush jungle flowers, and -Mutita's favorite -- frangipani flowers emerge from humble spring onious.

Mutita's art will feature at next year's Canberra Show, sponsored, naturally, by the Heart Foundation and the Fruit and Vegetable Wholesalers As-

Canterbury Express 4/95



Vorksbact

CUT ABOVE THE REST

In small groups... discuss and list...

What are some of the skills and knowledge that Mutita brought with her from Thailand to Australia?

What are the skills and knowledge that she would have had to learn in a new country?

How could she go about gaining these? How could she combine the two - her 'old' skills and her newly acquired skills?



WRITING PROCEDURES:

Mutita came to TAFE to improve her reading and writing skills in English.

Directions she wrote on how to make a frangipani from a spring onion are on handout 16.

Read through them.

You might want to try to follow Mutita's directions... just don't expect your first 'frangipani' to look like hers!

List three things that you do well - it can be an everyday thing -like making a Vegemite sandwich - or something more complex like changing a tyre.

1.

2.

3.

Choose one and try to write directions for someone else to follow.



0

FRANGIPANI

TOOLS

- 1 Thai carving knife
- 1 paring knife
- 1 paint brush
- 1 bottle of yellow food colour

BASIC INGREDIENTS

1 large spring onion

INSTRUCTIONS

- 1. Cut off the top of the spring onion leaving a 2 cm stalk.
- Divide root part into 4 sections and cut off the section at the root.
- 3. Hold a carving knife in a pencil grip.
- 4. Divide the spring onion into five sections by cutting down and stopping about 1 cm from the connection between the spring onion and the stalk.
- 5. Then shape both sides of each section right through to the centre making a pointed frangipani petal.
- 6. Separate each layer with your fingers.
- 7. Soak carved spring onion in cold water until it has opened.
- 8. Remove from water and separate the outer layer of the onion and twist it off.
 (If you see the clear skin inside or outside of the flower, it needs to be removed.)
- 9. Finally, paint the inside of the flower with yellow food colour so it looks like a real frangipani.

STORAGE

Painted frangipani should be used as a garnish straight away.

Keep carved unpainted spring onion in a tied plastic bag and put it into the fridge until it is needed. This carved flower can be kept for 3 weeks.

MUTITA Literacy student 1995



WOMEN, MEN AND WORK

Discussion has focussed on women and the social issues affecting them. Students could be encouraged to see these discussions against a background of historical perspectives affecting both men and women. Discussion could include:

- What type of work have women done in your family over the last 3 generations?
 Drawing a time-line is a useful visual way of representing the similarities and differences.
- What type of work have men done in your family over the last 3 generations?
- What historical factors have influenced this work?
- What other factors have influenced this work? Why?
- Have the factors had the same influence on the men as the women?

Ask students to look at the cartoon (handout 17).

- What does it represent?
- Why is it titled "Women and Work"?
- Why are 'women' and 'men' written at the top of the cartoon?

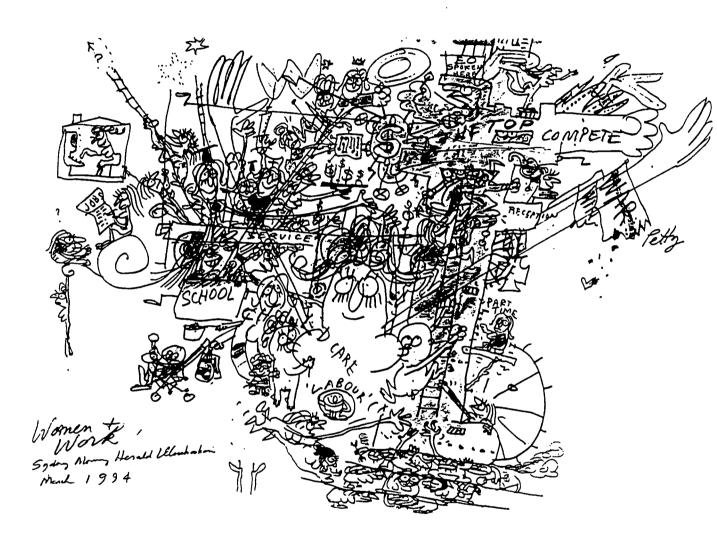
Ask the students to write their opinion of what the cartoon is saying. They may also want to have a class debate.



WOMEN AND WORK

WOMEN

MEN



Bruce Petty, SMH 3/94



SECTION 7 OBUST SEOTS TOTAL SECTION 7

Tourist Spots ... come and visit

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LEARNING OUTCOMES

In the context of this study students will

- gather information and mathematical data
- get information and mathematical data from texts
- present information and mathematical data from texts
- use mathematics creatively
- use language creatively
- increase confidence and participation
- make choices.

TOPICS

Language/Literacy

- listening
- presentation of findings
- role play
- note taking
- writing travel itinerary
- genres personal letter, letter of opinion,
- reading newspaper article
- persuasive/ descriptive/ factual language

Numeracy

- calculators
- budget
- critical numeracy
- percentage

RESOURCES

- teacher notes 1
- handouts 1-8

to be supplied by teacher:

- tourist brochures
- road map of Canberra
- calculators

FUTURE DIRECTIONS

- plan a holiday in your local area, research on attractions and (Aboriginal) history
- Australia as a travel country eco tourism/backpacking
- describe nature/places text comparison (travel brochure/tour guide/encyclopedia)
- write travel brochure/travel diary/tour guide for area of choice
- survey on travel preferences and leisure activities
- travel literature ie Bill Bryson, Bruce Chadwick.



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	Activities	Resources	Assessment
	Where and how would you like to spend a holiday weekend?		
Introduction	display photos of different places and leisure activities	photos as prompts	participation in discussion
	mindmap student input/ vocabulary		free writing sample
	 free writing activity (time limit) 		formulate questions and set
	 discuss teaching and learning styles, negotiate group organisation, 		group and individual learning goals
	activities and assessment events		teacher observation
	Holiday weekend in Canberra	,	
	A letter from your friend		
Language/ Literacy/	• read letter and outline the task	handout 1	outline steps and materials needed
Numeracy	Getting to know Canberra		to complete task
	• brainstorm: 'what do you know about Canberra?'		participation in discussion
	 browse through travel brochures and maps. what kind of information do they offer? how is this information organised? vocabulary/abbreviations 	travel brochures and maps to be supplied by teacher	reading brochures/maps for overview
	 read for details: 'Canberra – Welcome to the National Capital'. 	handout 2	read brochure for details and complete worksheet



	Activities	Resources	Assessment
Language/ Literacy/ Numeracy	listening comprehension and notetaking: 'Canberra: The Black Side'	script for tape teacher note 1 handout 3	listen accurately, take notes, reflect critically on issue
	discussion: which of the information about Canberra did you find most important? what would you like to see?		evaluation of written and spoken text
	Planning the holiday		
	explain worksheets and demonstrate completion, form small groups	OHP to model how to complete worksheets	
	fill in table – travel itinerary, find places of interest on map	tourism brochures, maps, handout 4	complete travel itinerary, use maps competently
	practice phone conversation – inquiring about accommodation	brochures on accommodation, phone, handout 5	phone conversation, note taking
	work on budget spreadsheet – brainstorm and demonstrate math skills involved, estimate costs	calculator, handout 6	complete budget spreadsheet
	present finding orally, compare results, evaluate group work		group presentation teacher and peer observation
	Writing a letter of reply to your friends		
Literacy	discuss language and layout of a personal letter, write letter of reply	handout 7	draft and edit a personal letter



	A catalate	December 1	
, .	Activities	Resources	Assessment
Language/ Literacy/	Tourism – blessing or curse?		
Numeracy	Important facts and figures about tourism		
	read newspaper article about tourists from Japan and find important facts and figures	handout 8	read article for main idea and for details
	discuss pros and cons of tourist industry		complete calculations
Language	Role play: A new tourist resort?		
	explain scenario and choose role card/role as observer	handout 9	participation in discussion
	set rules for debate		participation in
	role play and evaluate radio discussion		role play teachers and peer
Literacy	Now write about it		observation
	explain/model language feature of different writing tasks		complete writing task
	draft and edit letter of opinion/newspaper article		teacher observation
Reflection	discussion: what did you learn: what do you want to follow up?	student folder and record sheet	reflect on learning outcomes
			complete record sheet



	Activities	Resources	Assessment
	The World		
Language/ Literacy/ Numeracy	brainstorm what students would like to know about other countries (if applicable, countries that other students come from)	prior knowledge of group handout 10	students report to group
	complete cooperative logic game	handout 11	group feedback
	• plan a trip	handout 12	
	A dollar is a dollar		
	 read text complete worksheet on exchange rates 	handout 13, 14	completion of worksheet
	Population		
Numeracy	complete worksheets on world populations	handout 15, 16, 17	complete worksheets
	A nice place to live		
Language/ Literacy	opinion writing	handout 18	

Additional Activities

Blom and Barin Everyday Maths p 138, 152

The concept for this section was developed by Rita Brademann.



Footrot Flat PO Box 999 Cobram 3643 Vic (date)

Dear Chris.

How are you? I'm sure you are surprised to hear from us after such a long time!

We are writing to you today for a special reason. Our wedding anniversary is coming up soon, and Wally and I are thinking of doing something completely different this time. Just for once we would like to take a break from farm and country life. Would you believe it, neither of us has ever been to Canberra, our national capital! But we have heard a lot about this beautiful city and think it's time to pay it a visit.

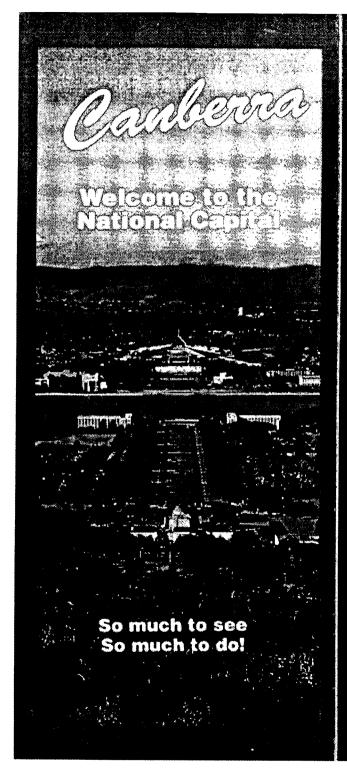
Please help us to plan a holiday weekend in Canberra. We'll arrive in the afternoon on Friday, (date), and leave after lunch on the following Monday. As we are very busy with shearing at the moment we won't have any time to study travel brochures and to look for accommodation. It would be just great if you could do that for us and make some suggestions where to go and where to stay. Wally seems so be interested in historical places and art galleries, whereas I would also like to see the Canberra countryside and perhaps a national park. And don't forget the entertainment - we really want to kick our heels up!

We hope to hear from you soon.

Yours

Edna and Wally





Making Money



The Royal Australian Mint, Denison Street, Deakin is open seven days a week and is only a few minutes from the City Centre.

Entry is free as is parking. Make your own unique \$1.00 coin on the public gallery coining presses.

View the coining processes and the museum in the elevated viewing gallery. Choose from beautiful Australian made gifts in the Coin Shoo.

Gould's Cafe offers a selection of tasty meals.

Wheelchair access and BBQ facilities available.

Open Monday to Friday, 9,00 am-4,00 pm, Weekends and public holidays, 10,00 am-3,00 pm.

Phone (06) 202 6999

Leafy Campus



The Australian National University is both a teaching institution and a centre for original research in the humanities, the natural, physical and social sciences, and the creative arts. Tours of the ANU can be arranged with a few days notice, free of charge. Phone (06) 249 2229.

The ANU Drill Hall Gallery opens 12 noon to 5.00 pm from Wednesday to Sunday.

The Classics and Prehistory Museums (A.D. Hope Building) are open weekdays. ANU's What's On Next Week' recorded message, phone (06) 249 0742.

Functions and Conventions, (06) 279 8100 or Fax (06) 249 5568.





Tucked in amongst the mountains about 40 minutes drive from the city is Tidbinbilla Nature Reserve (Tourist Drive 5). Native animals can be observed in wildlife areas behaving as they do in the wild all within a two hour visit. Call into the visitor centre to pick up a map, and see the audio-visual and the hands-on display about Tidbinbilla wildlife. Open daily, from 9.00 am. Phone (06) 237 5120.



NASA's Tidbinbilla tracking station — one of three around the world. There are continuous programs in the Visitor Centre's threatrettes, videos, memorabilia of early space missions, models and the most upto-date space news. Visit the kiosk and souvenir shop, or make use of the picnic and barbecue facilities. Phone (06) 201 7800. Tidbinbilla Space Tracking Station is a pleasant drive from the city (Tourist Drive 5), off Paddy's River Road, Tidbinbilla, Open 9.00 am=5.00 pm every day (8.00 pm during daylight saving). Admission and parking is tree.

Discover Outer Space at



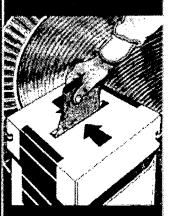
Ride the longest bobsled/alpine slide in the Southern Hemisphere at Corin Forest (Tourist Drive 5). Open weekends and public holidays from 10.00 am–5.00 pm. Also weekdays of school holidays from 10.00 am 4.00 pm.

A 4-wheeled sted runs in a 1,2 km stainless steel track that cascades through bends in a native forest. When you reach the bottom you'll be lifted back to the top where the action starts all over again.

Snow tobogganning also available in winter (June-September).

Barbecue and picnic facilities available, licensed cafeteria. Group bookings exclusive. Phone (06) 247 2250.





All you ever wanted to know about Australia's electoral system is answered at the Electoral Education Centre.

A 20 minute audio-visual program in the theatrette, interactive display area, polling place classroom and enthusiastic presenters make it easy for school and community groups to have all their questions answered.

The centre at 67 Launceston Street, Lyons is open five days a week from 8.30 am-4.00 pm. Phone (06) 271 4536, or (008) 020 067. Bookings are essential and admission is free.



Miniature World

Dinosaurs Galore

Stars of Sport

Talk to the Animals

Cockington Green is unique. It features meticulously crafted miniature buildings of Great Britain set in a superb manicured garden.

Visit the Parson's Nose Family Restaurant which serves traditional English fare or take a ride on a miniature steam train around the grounds. Other facilities include a kiosk, and a picnic/ playground area with free gas barbecues.

Cockington Green is open every day (except Christmas and Boxing Days) from 9.30 am-4.30 pm. It's on Gold Creek Road off the Barton Highway at Ginninderra. Phone (06) 230 2273.

National Dinosaur
Museum (the mike
durrant prehistory
collection) is Australia's
first museum dedicated
to Dinosaurs and PreHistoric Animals. There
are 300 exhibits,
including nine full size
replica skeletons, huge
bones, skulls and lifesized reconstructions of
3 Australian dinosaurs.
Facilities include a
Museum Shop and
Dinosaur Cafe.

Open seven days, 10.00 am-5.00 pm (except Christmas Day), Admission charges apply. Phone (06) 230 2655.

The Museum is at the corner of Gold Creek Road and the Barton Highway, at Gungahlin ACT, north of the City Centre.

Let one of our athletes guide you around the world class facilities of the Australian institute of Sport — home of past, present and future champions.

The Institute provides facilities and assistance, including sports science and sports medicine services, to potential elite athletes.

Tours leave daily from the AIS shop, right behind the statue (above) at 11.00 am and 2.00 pm, and last for about an hour.

You'll find the Australian Institute of Sport in Belconnen at Leverner Crescent, Bruce. Phone (06) 252 1444. There's a small charge for tours.

Rehwinket's Animal Park has the targest disptay of animals and birds in the region, including koalas, kangaroos, wombats, swans, dingos, peacocks and more in a 20ha natural bush setting plus tarmyard animals.

There is a klosk catering for morning and afternoon teas, light funches and cold refreshments, souvenirs and gifts.

Rehwinkel's Animal Park is open daily, including public holidays, from 10.00 am-5.00 pm. It's on Mac's Reef Road, off the Federal Highway, 24km north of Canberra. Phone (06) 230 3328.

Gold Mining

Living History

City of Attractions

Window to Past







Bywong Town is an historic mining town (1895-1906) just 20 minutes from Canberra off the Federal Highway. Experience the leel of the authentic setting with heritage sites set amongst natural bushland as it was 100 years ago.

See the old machinery which produced gold from ore in an operational gold mine.

Activities include personal guided tours; pioneer and gold history; panning and a century old blacksmith display.

School groups especially catered for. Worksheet provided with every booking.

Open daily 10 am-4.00 pm (except Christmas Day).

Tours 10.30 am, 12.30 pm and 2.00 pm. BBQ facilities and light refreshments available. Phone (06) 236 9183 or (06) 297 4943.

Lanyon is an historic sheep station on Cariborra's southern outskirts.

Take a guided tour of the restored 1850s homestead, walk through rambling gardens and orchard, discover the convict built outbuildings and special exhibitions.

Pause at the cale before walking down the stonepine driveway to the Notan Gallery. Here you may enjoy paintings by Sir Sidney Nolan along with works by contemporary Australian artists.

All found on Tourist Drive 5.

Open Tuesday to Sunday 10.00 am-4.00 pm and most public holidays. Phone (08) 237 5136.

Alan Fitzgerald & Associates

Canberra, Australia's national capital, is a growing city of more than 300,000 people, offering the visitor many attractions in a beautifully landscaped setting. The city is lamous for its parks, gardens and nature reserves as well as its restaurants. museums, galleries, clubs, casino, cultural events, festivals and outdoor activities.

As home of the national Parliament, Canberra has an international flavour with almost 80 diplomatic missions. The national capital area is around Lake Burley Griffin, named after the city's designer.

Further information: Canberra Tourism Commission (1800) 026 166 or in Canberra 205 0044.

General information and maps can also be obtained from: Travellers Maps and Guides Johnnont Tourist Centre



Calthorpes' House is centrally located at 24 Mugga Way, Red Hill. Built in 1927, this genuine survivor is a treasure house of domestic history. Original furnishings, household appliances, family photographs, and even clothing all survive to tell a vivid story of family life in Canberra's early days.

Take a tour through the gardens, and a close look at the rooms in the house. Be sure not to mass the air raid shelter.

A labulous memory jog for some and an amazing look at the past for the voung.

Tours weekdays: Tuesday, Wednesday and Thursday at 9.30, 11.00, 1.30 and 3.00 pm. Open house Saturday and Sunday afternoons: 1,30-4,30 pm. Phone (06) 295 1945.

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Art for All



More Than Books



Hands On Science



Parliament House is the reason for Canberra's existence and the focal point of the Parliamentary Triangle.

Join a conducted tour of the building's imposing halls and chambers, or simply stroll through the public areas. See portraits of past Prime Ministers, works of art and special exhibitions. Watch procedures in the House of

Representatives and Senate when in session.

Senate when in session. Visit the Parliament Shop and restaurant, and walk up and over the top of the building and admire the view of the city. Open daily, 9.00 am—5.00 pm (later when Parliament is sitting). Admission is free. Phone (06) 277 5399.

Located on the foreshore of Lake Burley Griffin, the National Gallery of Australia was opened in 1982 and houses the National Collection of art. The Gallery is open from 10.00 am-5.00 pm daily. There is tree admission from 5.00 pm-8.00 pm on the last Thursday in every month. Otherwise admission is \$3, full-time students and concessions free.

The gallery has a continuing exhibition program, including major collections from museums and galleries overseas. Facilities include a gallery shop, Brasserie and outdoor restaurant.

Guided tours conducted by voluntary guides, lasting about an hour, leave from the Lobby. Phone (06) 271 2502. The National Library's rich collections of books, paintings, newspapers, films, photographs, manuscripts, maps, music and oral history recordings are the most extensive in Australia. Changing exhibitions can be seen in The Exhibition Gallery and the Visitor Centre.

The Library Shop specialises in Australian books and has a wonderful collection of gift ideas. Other facilities include a licensed restaurant and a bistro.

Open Monday to Thursday, 9.00 am— 9.00 pm; Friday and Saturday, 9.00 am— 4.45 pm; Sunday, 1.30 pm—4.45 pm, Admission is free, Phone (06) 262 1111. Situated between the National Library and the High Court, Questacon—The National Science and Technology Centre is the ultimate hands-on experience.

Have hours of fun discovering science and technology by pulling levers, pushing buttons, and exploring over 200 fascinating hands-on exhibits located throughout the Centre's six galleries.

Facilities include a cafe, gift shop and disabled access. The Centre opens daily from 10.00 am-5.00 pm (except Christmas Day). Admission fees apply. Phone General Inquiries on (06) 270 2800. Schools and Group Bookings, (06) 270 2893

Order! Order!

Visit Old Parliament House, the seat of the Australian Government from 1927 to 1988, where history was made.

Join a guided tour through the heritage areas — the Parliamentary Chambers, Kings Hall, Prime Minister's suite, Cabinet and Party Rooms — where significant political and historical events occurred.

See exhibitions presented by the National Museum of Australia and the Australian Archives.

Visit the Courtyard Cafe for funch or refreshments.

To arrange your next social function or conference in this unique venue, phone (06) 273 5160.

For Exhibition and tours, phone (06) 273 5130. Open 9.00 am-4.00 pm daily.

Justice for All



The High Court of Australia, situated on the shore of Lake Burley Griffin, within the Parliamentary Triangle, is one of Canberras prestige public buildings. Admission is free.

It is home to the highest court in the Australian Judicial System and contains three court rooms, justices offices, administrative wing and a huge seven storey high public hall.

The High Court Cafe, overlooking Lake Burley Griffin, serves inexpensive, freshly prepared lunches as well as morning and afternoon teas. Open daily 9.45 am-4.30 pm.

Telling The Story



The best place to start your tour of Canberra is at the National Capital Exhibition, Regatta Point, in Commonwealth Park.

The whole story of our National Capital is told through photo-murals, models and audio-visual presentations in the theatrette.

Browse in the souvenir and bookshop, or visit the adjacent klosk and restaurant with its unsurpassed view of Lake Burley Griffin.

Open daily, 9.00 am— 5.00 pm (6.00 pm in summer time); closed Christmas Day, Free entry, Group bookings recommended. Phone (06) 257 1068.

Lest We Forget



The Australian War Memorial is the nation's tribute to its 102,000 war dead, whose names are listed on the Roll of Honour.

In the Hall of Memory, the Tomb of the Unknown Soldier commemorates all Australians who gave their lives for their country — in the armed forces or in non-combatant roles.

The Memorial houses a remarkable museum that records the participation of Australians in war. Displays or war relics, models, paintings, photographs and films, help tell the story.

Open every day (except Christmas Day) from 10:00 am-5.00 pm. School groups and tours welcome. Admission and parking free. Phone (06) 243-4211.

ERIC

Full Text Provided by ERIC

Sight and Sound



Gardens of Delight

Best Canberra Views









Delight in seeing some of the treasures from the nation's finest collection of film and sound media at the National Film and Sound Archive. This free exhibition, showcasing Australia's 'fabulous century' from the 1890s to the 1980s is just five minutes from the city at McCoy Circuit, Acton.

Located in a magnificent heritage building, you'll find the Film and Sound Archive's architecture and specialist shop of great interest too.

Exhibition and shop open 9:30 am-4:00 pm seven days a week (except Good Friday and Christmas Day). Phone (06) 267 1711. The National Museum of Australia Visitor Centre at Lady Denman Drive (below Black Mountain) features examples from the three themes of the Museum's collection.

They are: Aboriginal and Torres Strait Culture; Australian Society and History, and People and the Environment. There's also a short video about the Museum and a range of educational activities.

The Visitor Centre displays tell the stories of Australia and Australians through artefacts and memorabilia from the Museum's collection.

Open seven days a week, from 10.00 am-4.00 pm. Free admission. Phone (06) 256 1126.

The Australian National Botanic Gardens is a living museum of Australian native plants with more than 6000 species. Entrance is off Clunies Ross Street on the lower slopes of Black Mountain. There is no charge for admission and parking is free.

Features include the Rainforest Gully, the Rockery, Eucalypt Lawn, Mallee Shrubland, Aboriginal Trail and the Tasmanian Garden.

The Visitor Information Centre, the Botanical Bookshop and Casuarinas Restaurant are open from 9.30 am-4.30 pm, daily.

The Gardens are open from 9.00 am-5.00 pm, daily. Guided tours are available. Phone (06) 250 9540. Telecom Tower rises 195 metres above the summit of Black. Mountain and provides 360 degree views of Canberra and the surrounding countryside.

The Tower is open every day of the year from 9.00 am-10.00 pm and contains open and enclosed viewing platforms, a kiosk, coffee lounge, revolving restaurant and exhibition. Phone (06) 248 1911. Tower admission \$3

Tower admission \$3 adults, \$1 children and aged pensioners.





CANBERRA: SO MUCH TO SEE, SO MUCH TO DO!

Have a closer look at Canberra - Welcome to the National Capital. Read the brochure carefully and complete the following:

True or false?

- 1. Canberra offers a great variety of tourist attractions from galleries and historical buildings to outdoor activities and entertainment.
- 2. Unfortunately, sightseeing in Canberra is very expensive. There are high admission fees for all places of public interest.
- 3. Lake Burley Griffin, Canberra's famous lake, is named after Australia's first prime minister.
- 4. Canberra's population has nearly reached the 300 000 mark.

Fill in the gaps

5.	Parliament House is open and admission is					
6.	If you are interested in Australian flora and fauna, you should visit					
7.	n the National Library you will find not only books, but also					
8.	Believe it or not - NASA is present in the Canberra region! To find out more about what they're doing here, you have to go to					
Fin	the answer					
9.	How many diplomatic missions are there in Canberra?					
10.	How long is the longest bobsled slide in the Southern Hemisphere?					
11.	Which of the following places have free admission. () Questacon, () Australian War Memorial, () Telecom Tower, () Royal Australian Mint, () National Gallery?					
12.	Which of the tourist attractions mentioned in this brochure make a reference to Aboriginal culture?					



CANBERRA: THE BLACK SIDE (script for tape)

The text should be read on tape by two speakers, preferably a male and a female voice changing with each paragraph.

The Aboriginal words (in italics) should be written on the board before the tape is played. The tape should be played twice.

Not everybody knows that the name for the national capital comes from an Aboriginal word. "Kamberra" or "nganbirra" means "meeting place" or "a woman's breast", possibly hinting at the shapes of Mt Ainslie and Black Mountain. But the Canberra of today that nestles around these ancient hills is rather a living proof of the region's white history.

This history is very young. 150 years ago the first sheep farmers came to the area. And only in 1913, Canberra's life as the national capital began. Since then, modern architecture and technology have changed the landscape so drastically that an Aboriginal visitor from Arnhem Land stated: "This country has lost its dreaming". It had lost most of its Aboriginal people, too. Already around 1900, nearly all the Aborigines of the region had died out.

The 500 to 700 Aborigines from the *Ngunnawal* tribe who traditionally inhabitated the cold plains around the ACT were highly nomadic. They could only survive because they were in tune with the seasons and knew intimately the local animals and plants. They lived on freshwater fish and crayfish, possums and kangaroos and, most distinctively, the Bogon moths. In the spring-time, when the Bogon moths arrived in the south eastern highlands, hundreds of Aboriginals from a wide area travelled to the mountains for moth hunting, ceremonies and feasts.

White settlement devastated the Aboriginal population of the ACT. Many died from new diseases such as measles and tuberculosis. Traditional hunting and gathering patterns were disrupted. Fences cut through the tribal land.

Kangaroos and possums were hunted down with relish for sport and pleasure. Some pioneers saw the Aborigines themselves just as another native pest. Their demise would cause no mourning. In a very short time span, 21000 years of traditional lifestyle and culture had been wiped out.

Today descendants of the *Ngunnawal* people still live in and around Canberra. And more and more of the sites, tools and rock paintings of their ancestors have been rediscovered all through the region. Unfortunately, the main Aboriginal campsite of the Canberra city area, at *Pialligo*, is now buried under a rubbish dump and a plant nursery. But you can visit a number of restored sites in *Namadgi* National Park, walk along an Aboriginal trail in the Botanical Garden, and see Aboriginal works of art and other artefacts, not only from the Canberra region, displayed in in the National Gallery.

There, on the ground floor, you will find the perhaps most impressive of them all, the Aboriginal Memorial. It is a forest of 200 tall upright wooden tubes painted with Aboriginal motives. They are hollow log coffins as used in Arnhem Land for burial. Aboriginal artists from this area created the Memorial in 1988. It reminds of all the Aboriginal people who, since 1788, lost their lives in defending their land.

Some people believe that an art gallery is not the right place for the Memorial. Perhaps, one day, it will be relocated in the open in the middle of Canberra, and commemorate there the reconciliation of indigenous and not indigenous Australians. Perhaps.

Dep. of Aboriginal Affairs: Aboriginals of the Canberra region. Woden ACT Guy Freeman: Canberra Cosmos. Primavera 1995.



CANBERRA: THE BLACK SIDE

You will listen to some information about Canberra that you won't find on the first page of tourist brochures. Listen carefully and record your first thoughts and feelings:

Listen again and take some notes. What can you find out about

•	the	name	of	the	national	capital
---	-----	------	----	-----	----------	---------

• the lifestyle and history of the Ngunnawal people

Aboriginal sites in the Canberra area

• the Aboriginal Memorial

Which of all the information you have read and heard about Canberra did you find most interesting? Why?

If you would visit Canberra, where would you go? Why?



DECIDE ON PLACES TO GO Help your friends to plan their holiday weekend

day/time	places/location on map	What's there to see and to do?
Friday		
Saturday		
		•
Sunday		
Monday		



CHOOSE A PLACE TO STAY

Look through a list of hotels, motels and caravan parks. Which place seems to be best for your friends? Consider price, comfort and location.

Name:
Address:

Phone:

Give reasons for your choice:

You need to ring up to enquire. Make a list of questions you would like to ask:

Practice the telephone conversation with your partner before ringing up. Take notes while you are listening.



HOW MUCH WILL IT COST?

Help your friends to budget for their weekend. What will they approximately have to spend if they go ahead with your suggestions?

You can assume that they will mostly travel in their own car, but sometimes will have to use bus and taxi as well. There are, of course, many other things to pay for - check whether the list below covers them. Add more to it if necessary.

Fill in the table by estimating your friends' expenses.

	Friday	Saturday	Sunday	Monday	TOTAL
travel by car (25 cents per km)					
accommodation					, , , , , , , , , , , , , , , , , , ,
meals and refreshments			-		
fares (bus/taxi)					
admission fees					
entertainment					
souvenirs					
other expenses					
TOTAL	10 10 10 10 10 10 10 10 10 10 10 10 10 1				

How would you rate this weekend?

() A BARGAIN	— most peop	le could a	afford this
---	-------------	-------------	------------	-------------

- () **STILL AFFORDABLE** for the ordinary wage earner.
- () OUT OF REACH you will have to win the lottery first.

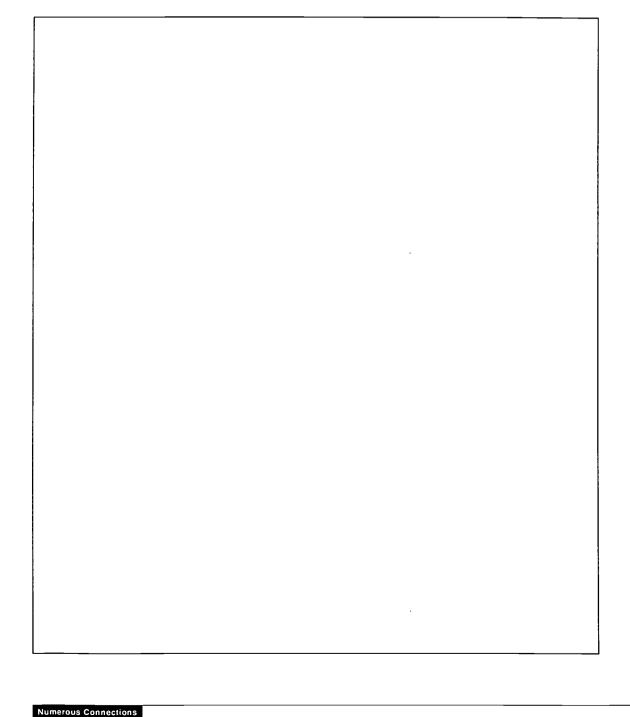
Handout 7

A LETTER OF REPLY

Let your friends know what you found out for them, and summarise the most important information in a letter of reply. You can include reference material (your itinerary, travel brochures) if you wish.

Give your letter an introduction, a body and a closure, and set it out in paragraphs.

Make a draft first and work on it. Write your final copy in the space below.





Tetsuya and Kimiko Yamada, married in Japan on Sunday, found they had become celebrities when they arrived at Brisbane airport at 6 am yesterday after an eight-hour flight. And no wonder the cameras were there to greet them - the honeymooners are the 5 millionth and one Japanese visitors to Australia.

While it has taken 50 years for 5 million visas to be issued to Japanese visitors, tourism authorities estimate it will take only about another five years for the 10 millionth visitor. By 2000, it is expected there will be 1.2 million high-spending Japanese tourists a year.

Mr and Mrs Yamada, who will spend three nights on the Gold Coast, two in Melbourne and three in Sydney, estimate the cost of their air fares and honeymoon including the many presents they will buy - will be 1.5 million yen (\$ 20,000). Mr Yarnada, 27, is an office worker from Ibaragi City in Osaka prefecture, and Mrs Yamada, 25, will be a housewife.

According to the Sydney Convention and Visitors Bureau Japanese representative, Mr Junzo Tamai, the main reason for the record expansion of travelling abroad is the strength of the yen.

Although Australia is the most popular long-haul destination for Japanese tourists, its 720,000 visitors a year (at present) is a relatively low market share of the record 13.58 million Japanese travellers.

The Joint Standing Committee on Migration is expected to report soon on whether Australia will change its universal visa requirement, which is cited as an impediment to tourism.

(Sydney Morning Herald 23/11/95)

A WELCOME TO OUR 5 MILLIONTH AND ONE VISITORS FROM JAPAN

Glance quickly over this article. Which statement summarises best the main idea?

- 1. Holidays in Australia are very expensive for Japanese tourists.
- 2. Tourism from Japan is an important growth industry in Australia.
- 3. There are too many tourists from overseas in our country.

Read carefully and answer these questions:

- 1. How many years has it taken to attract 5 million Japanese tourists?—Work out the yearly average!
- 2. When is the 10 millionth Japanese visitor expected?—This will mean how many visitors per year on an average?
- 3. How long will Mr and Mrs Yamada stay in Australia, and how much money are they going to spend?—This is roughly how many times your weekly income?
- 4. How many Japanese tourists are visiting Australia per year at present? This is () less than 1% () less than 10% () more than 10% of all Japanese travellers.
- 5. How do Australian visa requirements affect tourism from Japan?

Discuss: What are the benefits, what are the negative aspects of tourism?

ENVIRONMENT jobs higher prices casino infrastructure ECONOMY litter development noise pollution ALCOHOL trade MULTICULTURALISM YEN inflation market share cime souvenirs traditional lifestyle adventure CUSTOMERS

TOURISM - BLESSING OR CURSE?

Tourism creates jobs and contributes to economic growth - but with it come shopping centres, tourist resorts, roads and other development projects that change the environment and the lifestyle of the local residents, not always for the better.

Role play the following scenario:

A futuristic multimillion dollar tourist resort is proposed in the rural outskirts of Canberra (or in a popular recreation area close to your own community). A US investor has shown interest, and a majority in the local government is inclined to give the project the go ahead. The local community is divided over the issue. The community radio station has invited the following people to a discussion:

Resident (1)

You are a construction worker who has been out of work for a long time, and you are looking forward to employment at the new building site. Your sister is a shop owner and keen to get new customers.

Government Official

You believe that the benefits of the new project will by far outweigh its negative aspects, and that the local community will benefit from economic growth that will come with it.

Resident (2)

You know about Aboriginal sites in this region, and you are concerned that the development will change the area completely.

Tour Operator

You hope the new resort will bring a boom for your business. And you argue that tourists have a right to the best service possible!

Environmentalist

Your group has researched the flora and fauna of this area. You've found the legless lizard, a very rare reptile, and wish to see this and other native species protected.

Resident (3)

Overseas tourist

You have brought up your children in this area and you want to spend the rest of your life here. How will life change for you with this development?

You welcome the comfort and

the convenience of a new resort,

but you are concerned that you won't be able to afford this.

.Journalist

You have to facilitate the discussion and to make sure that everybody can get their point across.

Choose one of the following writing tasks:

- 1. Write a 'letter to the editor', expressing one of the viewpoints of the role play.
- 2. Write an article for the local paper about the radio discussion.

Acknowledgment for this idea to J. Bell: Integrated Skills/ upper intermediate p48, Heinemann 1990





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THE WORLD

Find out about another country that interests you.

Some other students may have knowledge about the country. If not, where else can you get information?

Here are some questions you might ask.

What is the country? What are neighbouring countries? What is the population? What is the weather like? What language is spoken there? What is a food that is popular there? What is the national sport? What is the currency? Who is the head of the government? How is she/he chosen? Who is a famous personality from your country? There are countless others you could include ... Ask whatever questions interest you most ...

REPORT BACK TO THE CLASS.



THE WORLD

ORIGINS

This is a co-operative logic problem. The statistical information comes from the 1986 census conducted by the Australian Bureau of Statistics.

Instructions:

Origins requires students to arrange twelve ethnic groups living in Australia in order of size. All the statistics refer to people who live in Australia but were born overseas.

It can be played in a group of up to eight students.

All eight clue cards are necessary to find the solution.

Encourage students to place the cards on the table, and move them around until the group reaches a solution.

Preparation:

Make one copy of the problem for each group of students. Cut out the clue cards, and store each problem in an envelope.

Ref: Allan, L (1990) in Lord, S. and Lester, P. (eds) Numeracy: More Than Numbers

VIETNAM	MIDDLE EAST	SCOTLAND
ITALY	IRISH REPUBLIC	AFRICA
YUGOSLAVIA	NEW ZEALAND	INDIA
GREECE	SOUTH AMERICA	LEBANON



ORIGINS

PROBLEM: Arrange the twelve ethnic groups in order from largest to smallest.

Everyone must read this card.

CLUE CARD: ORIGINS

This clue will help to solve the group's problem. Read it to the group but do not show anyone.

- The only two groups larger than the Yugoslavians are the New Zealanders and the Italians.
- There are 108,547 African-born people living in Australia.

CLUE CARD: ORIGINS

This clue will help to solve the problem. Read it to the group but do not show it to anyone.

- The numbers of Greeks and Middle Eastern Australians are smaller than those born in Scotland.
- Lebanese-born Australians number 56,341.
- There were severe droughts in India last year.

CLUE CARD: ORIGINS

This clue will help to solve the group's problem. Read it to the group but do not show it to anyone.

- Eleven groups are larger than the Irish Republicans.
- 83,044 Vietnamese-Australians were born overseas.

CLUE CARD: ORIGINS

This clue will help solve the group's problem. Read it to the group but do not show it to anyone.

- New Zealanders are a larger group than the Scottish, but smaller than the Italians.
- Many western countries are limiting sporting and trade ties with South Africa because of its racist policies.
- Five groups are smaller than Africa.

ORIGINS

CLUE CARD: ORIGINS

This clue will help to solve the group's problem. Read it to the group but do not show it to anyone.

- The five largest groups are people born in Yugoslavia, Greece, Italy, New Zealand and Scotland but not necessarily in that order.
- Indian-born people number less than the Vietnamese and Lebanese, but more than the South Americans.

CLUE CARD: ORIGINS

This clue will help to solve the group's problem. Read it to the group but do not show it to anyone.

- In Australia there are twice as many people born in the Middle East as were born in Lebanon.
- Numbers for all of South America, Africa and the Middle East were included because we could not get information about individual countries in these areas.

CLUE CARD: ORIGINS

This clue will help to solve the group's problem. Read it to the group but do not show it to anyone.

- There are about 10,000 more Lebanese than South American Australians.
- Lebanon is still at war.

CLUE CARD: ORIGINS

This clue will help to solve the group's problem. Read it to the group but do not show it to anyone.

- The smallest groups are the Irish Republicans, South Americans, Indians, Lebanese, and Vietnamese, but not necessarily in that order.
- The Italians are the largest group in Australia.



OFF YOU GO ...

You've heard about a number of different countries. Choose a destination - a place that you'd like to visit and maybe spend a year or so ... and plan a trip ... What do you need to know before you're ready to go? Will you need a passport ... visa ... what else ... Where can you get this information? Cost the tickets ... How will you do this? What time of year do you get the best price? What's the difference in price between 'high' and 'low' season? Are low fares really always a bargain? Explain. (for example, the weather may be really awful in low season.)

A DOLLAR IS A DOLLAR ... or is it????????

Fred Jacobs came to Australia from South Africa. There's lots he likes about his new home. but he's concerned about the current exchange rate of South African rands for Australian dollars.

This is what he says:

"The worst thing is that the rand is worth so little against the Australian dollar. If you earn a rand in South Africa, it's like earning a dollar here. But if you bring your rands into Australia, at the current exchange rate you'd only get \$35 for every -100 rand. We lost a tremendous amount of money and we basically had to start again. From owning a house in a good suburb in Cape Town, we are back to mortgages."

Jacobs says Australia is now home and he would not go back.

JANE FREEMAN

SMH 5/12/95



CURRENCY

What is the currency of the country you've chosen to visit?

Look at the table below dated 4 December 1995.

EXCHANGE RATES

Source: Westpac, (n/a to currency notes).	Dec I		Dec 4	
	Buying	Selling	Buying	Selling
USA, \$US	0.7435	0.7385	0.7394	0.7344
\$AI for \$USI	1.3449	1.3540	1.3524	1.3616
UK, £stg	0.4862	0.4796	0.4835	0.4770
SAI for £1stg	2.0567	2.0850	2.0682	2.0964
Japan, Yen	76.14	74.80	75.04	73.71
Austria, schilling	7.62	7.46	7.57	7.41
Belgium, franc	22.26	21.80	22.11	21.66
Canada, \$C	1.0133	0.9957	1.0126	0.9950
China, yuan	n/a	n/a	n/a	n/a
Denmark, krone	4.1701	4.0973	4.1415	4.0691
Fiji, \$F	1.0691	1.0391	1.0667	1.0367
Finland, markka (Fmark)	3.2003	3.1435	3.1767	3.1202
France, franc	3.7195	3.6541	3.6975	3.6324
Fr Pacific, franc	67.93	66.06	67.91	66.04
Germany, Dmark	1.0821	1.0633	1.0710	1.0524
Greece, drachma	177.46	174.44	176.03	173.03
Hong Kong, \$HK	5.7774	5.6780	5.7464	5.6474
India, rupee	25.779	24.616	25.636	24.480
Indonesia, rupiah	1708.0	1664.0	1701.0	1657.0
ireland, punt	0.4704	0.4617	0.4680	0.4593
Italy, lira	1197.0	1167.0	1189.0	1159.0
Malaysia, \$M	1.8925	1.8604	1.8774	1.8455
Netherlands, guilder	1.2053	1 1845	1.1950	1.1743
NewZealand, \$NZ	1.1350	1.1279	1.1315	1.1244
PNG, kina	0.9877	0.9500	0.9823	0.9448
Philippines, peso	n/a	18.877	n/a	18.772
Portugal, escudo	112.91	110.88	112.19	110.17
Saudi Arabia, riyal	2.8020	2.7335	2.7865	2.7183
Singapore, \$S	1.0545	1.0362	1,0470	1.0288
South Africa, rand	2.7445	2.6842	2.7342	2.6741
Spain, peseta	91.91	90.30	91,50	89.90
Sri Lanka, rupee	n/a	0.09	n/a	38.64
Sweden, krona	4.8830	4.7983	4.8359	4.7520
Switzerland, franc	0.8773	0.86 i 9	0.8706	0.8553
Thailand, baht	18.80	18.41	18.71	18.31
Vanuatu, vatu	85.19	83.03	84.71	82.57
CHC HEDGE DATE				

\$US HEDGE RATE - The U.S. dollar settlement rate based on spot rates set by trading banks at 9:45 am yesterday was: 0.7397 (0.7439).

SMH 5/12/95

From this table find out what is the exchange rate for your country.

Find the exchange table in a current newspaper.

How has it changed - gone up or down? Why?



28

POPULATIONS

KEY:

1 million

 F

0.5 million

9

How many people?

- 1 Santiago
- 2 2 2 2
- 2 Mexico City
- 222222

3 Baghdad

2 2

4 Dublin

- 9
- 5 Melbourne
- 2 2 3

Draw the stick people to represent these populations:

- 1 London
- 6.8 million
- 2 Sydney
- 3 million
- 3 Singapore
- 2.5 million
- 4 Hanoi
- 1 million
- 5 Moscow
- 8 million

Strength in Numbers: Goddard, Marr, Martin 1991



POPULATIONS

Look at the next page

1.	From this table, how many people live in	Australia? — — — — — —
2.	Which country has the most people? ——	
3.	Write down the countries in order of size. population.	Start with the country with the biggest
	COUNTRY	POPULATION

4. These population figures are not today's figures.

Where would you find out the real population of these countries?

POPULATIONS ARE MULTIPLYING

KEY:	1 million	2	0.5 million			9								
AUSTRALIA		2												
INDIA		OX OX OX	2222	2525	25 25 25	2522	22222	25 25 25	25 25 25	24 24	24 24			
INDONESIA		2	웃	2	웃	2	2	웃	2	2	2	g		
JAPAN		2	웃	웃	웃	웃	2	2	9					
PHILLIPINES		2	웃	웃	9									
CHINA		2 2 2 2 CX	公	2222	2222	2222	2222	2222	2424	2222	20 25 02	X X X X X	20000	

adapted from Strength in Numbers: Goddard, Marr, Martin 1991



A NICE PLACE TO LIVE

There are advantages to living here in Australia and there are advantages to living elsewhere.

Complete this table:

ADVANTAGES

LIVING IN AUSTRALIA	LIVING ELSEWHERE					

What do you think? Write your opinion about where you think would be an ideal place to live.



SECTION 8 LUGGINGPOOL LUGGING

Juggling Pool ... from a new angle



LEARNING OUTCOMES

In the context of this study students will:

- set personal goals
- set literacy and numeracy goals
- gather information and mathematical data
- interact with others and in groups
- reflect on learning
- perform procedures
- gather information and mathematical data from texts
- present information and mathematical data in texts
- use mathematics creatively
- use language creatively
- use technology
- solve problems
- increase confidence and participation
- make choices.

TOPICS

Language/Literacy

genre - procedural writing

Numeracy

- angles
- mathematical language
- spatial relationships

RESOURCES

- teacher notes 1-4
- handouts 1-8
- pamphlet Dickins, E. Juggling with Red Giraffe (included) and available from Red Giraffe Ltd., 111 Gloucester Street, The Rocks

to be supplied by teacher:

- protractors
- rulers

FUTURE DIRECTIONS

- other student skills (eg refer 'Countries' worksheets 8, 9)
- research history and practice of games (refer handout 8)
- research rules for playing pool in Australia.



	Activities	Resources	Assessment
Introduction	 What are you good at? brainstorm skills that students have write procedures for these skills (first draft) brainstorm other areas for procedural writing 	teacher notes 1	production of first draft
Language/ Literacy/ Numeracy	 Can you juggle? model a set of instructions for juggling practise juggling discuss schematic structure of text revise students' own procedural text 	teacher notes 2 handout 1 handout 2, 3, 4	completed handouts
Language/ Literacy/ Numeracy	Can you play pool? excursion to local pool tables discuss mathematical language of pool playing measure angles jointly construct procedural text for playing pool critically analyse why angles are measured	handouts 5, 6, 7 teacher notes 3 (refer to previous work on juggling) teacher notes 4	participation in discussion



	Activities	Resources	Assessment
Language/ Literacy/ Numeracy Reflection	How can other procedural texts be written so that they are easier to understand?	eg. TAFE student booklet	
	When do you need to read written procedures? Why?		

The concept for this section was developed by Sue Sim and Michael Keating.



JUGGLING POOL

Discussion and Brainstorm

Brainstorm the range of expertise amongst the students, particularly focussing on areas that require a physical skill. Discuss the skills involved in recreational activities such as basketball, pool playing, cardgames etc. Highlight mathematical skills such as estimating angles for basketball and pool playing. Discuss how these skills could be taught through a series of procedures.

Small group work

Students can try to teach each other their skill, firstly through discussion and then by trying to write down the instructions. Remind them that this will be a first draft that will be altered as they gain more expertise in procedural writing.

Students can then report back to the whole group.



CAN YOU JUGGLE?

Model a procedural text

Use the juggling instruction booklet (handout 1) to model a procedural text. Highlight features of its schematic structure including:

- position of the imperative in the text
- · use of numbers or other symbols to introduce information
- desktop publishing features such as font, size and layout.

Practise Juggling

Try juggling !!!

You and your students will have fun trying to juggle. This is a great opportunity for the teacher and the students to try something new together.

Look back at the instructions (handout 1) and complete handouts 2,3,4

Revise students' own procedural texts.



JUGGLING WITH RED GIRAFFE THE ANCIENT ART REVEALED

In an age where quality leisure time is becoming more sought after, juggling is making a remarkable comeback.

As a sport juggling improves your mental and physical agility, promoting muscle tone, coordination, concentration, stamina, reflexes and plenty of laughter which are vital in everyday living. What's more, it can be practiced almost anywhere by almost everyone.

The Ancient Egyptians were at it back in 4000 BC and today all walks of life are engaging in the ancient art whether it be for fun and entertainment, stress management or improving life skills. Juggling is absorbing, addictive, surprisingly strenuous and has to be tried!!

Handy hints for beginners

- Find a peaceful environment with flat ground.
- Find your centre of balance and keep good posture.
- Keep your hands at shoulder width apart and forearms parallel to the ground.
- · Proceed one step ahead in your own time.
- Get the balls to go into your line of vision-approximately 10cm above your head.
- · Learn from your mistakes.
- Practice in front of a bed but don't bend down.
- If you tend to throw ahead of yourself, practice in front of a wall.
- Allow your left and right to develop. Alternate starting with your stronger and weaker side.
- Remember, practice makes perfect.
- Relax and have fun. Enjoy the experience!!



Numerous Connections

JUGGLING WITH RED GIRAFFE

The Three ball cascade

Refer to Handy Hints

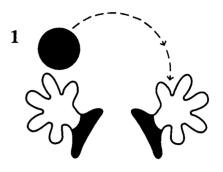
One ball—Throw the ball from hand to hand, aiming for a defined peak about 10cm above your head. The catch should be smooth without having to move your hands. Continue until throw is even, controlled and confident.

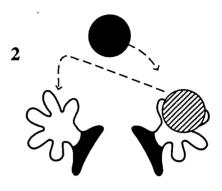
Two balls—one ball per hand. Toss the first, when it reaches its peak, throw the second ball thus making a figure eight (00). Always throw to the inside. The balls should peak at the same height. This is the hardest stage in the 3 ball cascade and once mastered, most of the work has been done. Be sure to have exchange mastered before moving on.

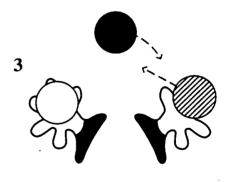
Three balls—two balls in your strongest hand and one in the other. At first, repeat step 2 without releasing the third ball. Always start with the hand with two balls. To introduce the third ball, throw it when the second ball has reached its peak. OK... you've achieved your first complete exchange—you're juggling!! To keep the balls in motion just keep on throwing in this fashion, always waiting until the previous ball has reached its peak before throwing the next.

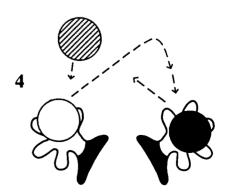
Counting 1-2-3-4-5 ... with your throws helps keep timing.

Keep it slow.









JUGGLING WITH RED GIRAFFE

Three ball tricks

The three ball cascade soon looses its fascination. You need something more challenging, but four balls may be one too many at the moment. Here are a few moves to get you on your way.

To start—toss two balls simultaneously from the same hand. As they peak, introduce the third ball as usual.

Fancy but simple moves include throwing under your leg or over your shoulder. When attempting these moves always throw the previous ball higher—this gives you more time.

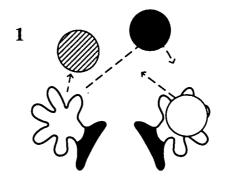
Ping Pong—try throwing over each descending ball instead of under. (see figure 2).

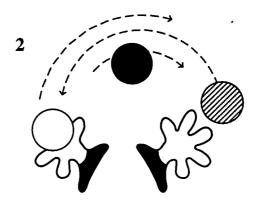
Fountain—throw one ball vertically. As it peaks throw the other two so they cross paths as they peak. (see figure 3)

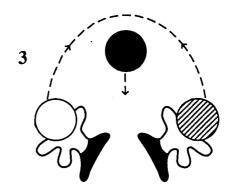
Shower—A very effective move requiring quick hands. Start with two balls in your strongest hand and throw in quick succession. Then pass the third ball to your empty hand. (see figure 4).

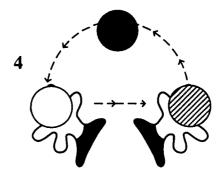
Another method of catching the descending balls is to snatch them—your palms will be facing down.

To finish—pass one ball to the other hand whilst the third ball is still in the air.











JUGGLING WITH RED GIRAFFE

Four balls—the challenge is on...

Before you start, here are some warm up and practice exercises.

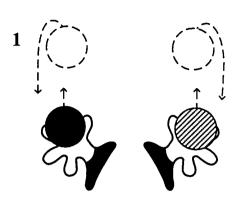
Throw balls simultaneously, ensuring they peak at the same height. (see figure 1)

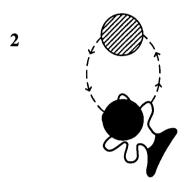
Two balls in one hand—throwing in a circular pattern from the inside to outside. (see figure 2)

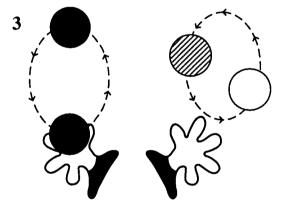
Ready!! When juggling 4 balls the same two balls will remain in that hand—they do not cross over. The effect is simply achieved by throwing alternately.

Keep your hands low—resist reaching up for the balls.

Concentrate on keeping the two sides separate—this reduces risk of collision.







Source: Juggling with Red Giraffe: The Ancient Art Revealed.



IMPERATIVE

A verb that expresses a command.

Find a peaceful environment with flat ground.

Find your centre of balance and keep good posture.

Keep your hands at shoulder width apart and forearms parallel to the ground.

Throw the ball from hand to hand.

Find, Keep and Throw are imperatives.



HANDY HINTS FOR BEGINNERS

Fill in the missing words. Choose from the words below. _____ a peaceful environment with flat ground. _____ your centre of balance and keep good posture. your hands at shoulder width apart and forearms parallel to the ground. _____ one step ahead in your own time. the balls to go into your line of vision - approx 10cm above your head. _____ from your mistakes. _____ in front of a bed but don't bend down. • If you tend to throw ahead of yourself, ______ in front of a wall. your left and right to develop. Alternate starting with your stronger and weaker side. Remember, _____ makes perfect. _____ and have fun _____ the experience.

relax, find, keep, enjoy, learn, get, proceed, allow, stand, practice



THE THREE BALL CASCADE

Fill in the missing words.
Choose from the words below.
One Ball—
the ball from hand to hand, for a defined peak about 10cm above your head. The catch should be smooth without having to move your hands until throw is even, controlled and confident.
Two Balls—one ball per hand
the first, when it reaches its peak the second ball thus making a figure 8. Always to the inside. The balls should peak at the same height. This is the hardest stage in the 3 ball cascade and once mastered, most of the work has been done. Be sure to have exchange mastered before moving on.
Three Balls—two balls in your strongest hand and one in the other
At first, step 2 without releasing the third ball, always with the hand with two balls. To introduce the third ball, it when the second ball has reached its peak.
OK you've just achieved your first complete exchange—you're juggling!!
To keep the balls in motion just keep on in this fashion. Always until the previous ball has reached its peak before throwing the next.
1-2-3-4-5 with your throws helps keep timing.
it slow.
throw, repeat, toss, start, throwing, waiting, keep, continue, aiming, counting



Numerous Connections

POOL PLAYING AND ANGLES

Measuring the angle of the cue (white) ball

Look at handout 6

Step 1

Draw a line (solid line) from the centre of the ball you want to sink to the centre of the pocket (ball 1 and ball 2).

Make sure the line comes back through the ball. and out the other side (see diagram).

Step 2

Draw a picture of where the cue ball should be to sink your ball. It should be directly behind the ball so the centre of the cue ball lines up with the centre of the ball to be sunk and the centre of the pocket.

Step 3

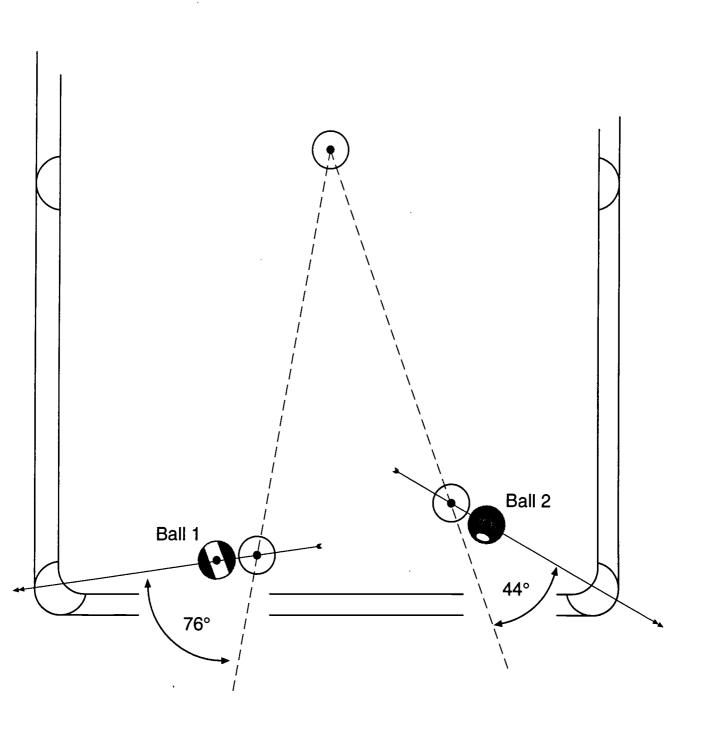
Draw a line (dotted line) from the centre of where the cue ball actually is to where you need to place it to sink your ball.

Step 4

Measure the angle created by the line of the shot. This is the angle of your cue stick relative to the direction of the ball as it travels toward the pocket.

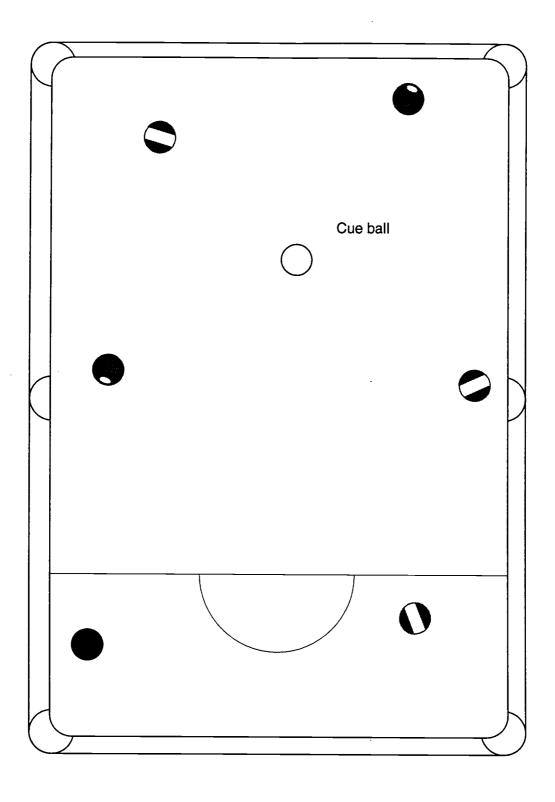
Follow steps 1–4 with the balls on handout 7. Compare your results with other students.





Numerous Connections

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POOL PLAYING AND ANGLES

Why measure angles?

When students have completed handouts 5,6 and 7 (or perhaps even whilst they are completing them!) encourage a discussion about why they are measuring the angles.

Here are some questions that may arise.

- Why are we measuring these angles?
- Would we measure these angles when we are playing a game of pool?
- Does knowing the size of the angles improve our pool playing? Why/why not?
- Are there other ways to improve our pool playing?
- Are there other sports or areas of recreation where it is important to know the angles? How can they be measured?

Encourage the students to critically analyse why they are doing this mathematical task (ie measuring angles) and if it is useful/helpful/easier to measure angles in a real life context.



CAN YOU PLAY POOL?

Joint Construction

Ask one of the students to scribe at the blackboard while the class brainstorms all relevant information to go into the instructions.

Review the relevant mathematical information and language to be included in the instructions.

Discuss the appropriate audience for the text and confirm the relevance of the language and information. Use the expertise amongst the students.

Develop a set of class instructions for playing pool based on knowledge gained from Can you juggle?.



BILLIARDS

All billiards games are played on a rectangular, slate-topped table twice as long as it is wide and covered with a felt cloth. The playing area is surrounded by rubber cushions, or rails. Two basic types of billiards exist: pocket billiards, also called pool, on a table with six pockets, and carom billiards, usually on a table with no pockets.

Pocket Billiards

Pocket billiards requires cue sticks, a white cue ball, and in the United States, 15 object balls numbered 1-15 (1-8, solid; 9-15, striped).

The most popular U.S. pocket billiards game, called 14.1 continuous or straight pool, is for 2 players only. The game begins with the 15 object balls racked unordered in a triangle. The player who begins, or breaks, strokes the cue ball and must drive 2 or more object balls to a cushion or at least 1 object ball into a pocket. After that, each player attempts to make a continuous run of balls, in any order, until only 1 object ball remains on the table. The 14 balls are then racked again, with a space left at the head of the triangle. The player who pocketed the 14th ball now attempts to pocket the 15th and scatter the racked balls. Before each shot a player must call the shot, that is, identify ball and pocket. Each turn taken is called an inning. One point is scored for each successful shot, and a game is usually to 150 points.

Another pocket billiards game is rotation, in which the object balls are racked in order—the number 1 ball at the apex of the triangle and so on. Each ball must be pocketed in order and is worth its face value. The player or team to reach 61 points or more wins.

A variation of rotation is nine ball, which, from the early 1980's, rivalled straight pool in U.S. popularity. Only balls 1-9 are used, racked in a diamond with the number 9 ball in the centre and the 1 ball at the apex. On all shots the cue balls must first strike the lowest-numbered ball on the table; the player who pockets the 9 ball wins.

Eight ball, the game most played on coin-operated tables, begins with the number 8 ball racked in the centre of the triangle. After the break, 1 player (or team) shoots only at balls 1-7 (solids), the other player only at 9-15 (stripes). After a player pockets an entire group, the 8 ball must be pocketed to end the game.

In Great Britain snooker is the most popular billiards game. It uses 21 object balls: 15 red (worth 1 point each) and 1 each of yellow (2), green (3), brown (4), blue (5), pink (6), and black (7). A player must first pocket a red ball, then a "colored" one, then a red, and so on. Each colored ball is respotted on the table, however, until all the reds are off; then the colored balls must be pocketed in ascending order. The player with the most points wins.

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Carom Billiards

The most popular form of carom billiards is three-rail billiards, played with two white balls and one red on a pocketless table. To score a point a player must stroke the cue ball (one of the white balls), and it must hit one of the other balls and at least three cushions before hitting the second ball. The cue ball may also strike the other two simultaneously as long as it has already hit at least three rails. Games are usually played to 50 points.

In straight-rail billiards the cue ball must strike the other two but not necessarily any rails. English billiards is played on a somewhat larger table, with pockets, and with some rule variations.

History

Billiards is of unknown origin, but the game was played in 16th-century England. The word billiards is derived from the Old French billart, "curved stick." The Billiard Congress of America, in Iowa City, Iowa, sanctions U.S. play. The greatest U.S. players were Willie HOPPE (three-rail) and Willie MOSCONI (straight pool).

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SECTION 9 BANKING SECTION 9 BANKING

Banking ... more for your money

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LEARNING OUTCOMES

In the context of this study students will

- set personal goals
- gather information and mathematical data
- reflect on learning
- perform procedures
- get information and mathematical data from texts
- present information and mathematical data in texts
- solve problems
- increase confidence and participation
- make choices

TOPICS

Language/ Literacy

- terminology used in banking
- genre formal letter writing
- reading and understanding
- oral presentation

Numeracy

- percentage
- interpreting mathematical data from tables, texts and graphs
- · critical numeracy

RESOURCES

- teacher notes 1-2
- handouts 1-3

to be supplied by students or teacher:

- Savings account brochures from different banks
- calculators

FUTURE DIRECTIONS

- credit cards, home loans, foreign exchange
- application forms to open a bank account.



	Activities	Resources	Assessment
Introduction Language/ Literacy/ Numeracy	 Saving your money brainstorm banking terms discuss what to look for in savings account 	whiteboard teacher notes 1	use of prior knowledge
Language/ Literacy/ Numeracy	 What do banks offer you analyse brochures in small groups complete worksheet 	handout 1 brochures from banks, building societies,etc OH transparency, markers, projector *each group should have brochures from only 1 bank	teacher observation of group discussions
Language/ Literacy/ Numeracy	 present relevant data, information to whole group 	OH presentation	peer assessment group presentation
Numeracy	How much interest? • recap and revise percentages		student responses to questions
Language/ Literacy/ Numeracy	 calculate interest on accounts discuss and compare savings accounts from different banks 	handout 2 handout 3	check worksheet group assessment



	Activities	Resources	Assessment
Reflection	 Why bank? analyse the place of banks in our society will students continue to use banks? Why/why not? 	teacher notes 2	

Additional activities

Lawrence, G. and Moule, J. 1990, *The Consumer, Mathematics in Practice* pp 11-13 Blom and Barin, *Everyday Maths* pp 78-83 Marr and Helme, *Maths – A New Beginning* pp FA1-FA20.

The concept for this section was developed by Maggie Sinclair.



PROMPT SHEET

Here are some banking terms you may want to discuss with students:

ATM

EFTPOS

savings

investment

debit

credit

building society

passbook

fixed term deposit

minimum monthly balance

FID



BANKING - SAVING ACCOUNTS

Which bank???

You have a selection of brochures from a bank—it might be Westpac, NAB, St George. What other banks can you think of?

Skim the brochures and answer the following questions.

Record your answers on the overhead transparency using the OH marker provided so that you can present your findings to the class.

1.	Which bank do the brochures come from?
2.	Look at the savings account. Does it have another name? What is the account called?
3.	What are the current interest rates on this account?
4.	How is this interest calculated? e.g. daily, weekly, etc.
5.	When is interest paid?
6.	What fees and charges apply to this account?
7.	List any options or special facilities that are available with the account.

BANKING - CALCULATING INTEREST

1. You have some money in the account you have looked at (handout 1) for 1 year. How much interest would you earn and what would be the balance on this account for the following amounts:

money in account	interest earned p.a.	balance after 1 year
\$100		
\$200		
\$550		
\$21000		

2. Calculate the interest earned and the balance after 6 months if you had the following amounts in this account:

money in account	interest earned p.a.	balance after 6 months
\$100		
\$200		
\$550		
\$21000		

3. Calculate the interest earned and the balance quarterly if you had the following amounts in this account:

money in account	interest earned p.a.	quarterly balance
\$100		
\$200		
\$550		
\$21000		



Compare information from four different banks that have been looked at by students in the class and complete the following table:

SAVINGS ACCOUNTS

1 2 3 4

name of bank					
interest rate					
when calculated	_	-			
when paid					-
special fee					

Is there any other information you need to know about a bank before you make a choice?

Which bank best suits your needs? Explain why.



WHY BANK?

Students should be encouraged to reflect on issues surrounding

banks and their use. Questions that may arise include:

- Why do we use banks?
- Why does our society have banks?
- Who sets the interest rates? How? Why?
- How do we have a say in the services offered by banks?

Additional tasks that would reinforce students literacy skills could include:

- (1) writing a formal letter to the bank manager:
- complaining about rude service from a teller
- · asking about interest that has not been paid
- expressing concern about the closure of a local branch.
- (2) interviewing bank personnel about
- · taking out a personal loan
- · currency exchange rates for a trip overseas
- · getting a new cheque book
- interest rates and terms for a personal loan.

Students may wish to role play these interviews prior to going to the bank.



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