

# CONTENTS

## EDITORIAL

### MANSW ANNUAL CONFERENCE, 2002

Opening Comments, Holly Gyton.....	1
------------------------------------	---

### REFLECTIONS ON EFFECTIVE MATHEMATICS TEACHING

Describing effective practice in K–2 Mathematics, Doug Clarke and Barbara Clarke .....	2
--	---

### REFLECTIONS ON EARLY MATHEMATICS LEARNING

A framework for developing pattern and structure in early numeracy, Joanne Mulligan, Anne Prescott and Mike Mitchelmore .....	7
Count me into space – Maximising Mathematical Inspiration and Innovation, Kay Owens .....	12
How do we know what they learned? Cathy Attard and Karen McDaid.....	17
What do we do with attribute blocks? Beth Southwell .....	19
Mathematics in the Outback: Opal maths, Elise Dell .....	23
Celebrating difference in mathematics classrooms, Julie Gassner-Gering.....	24

### REFLECTIONS ON TEACHING STRATEGIES

Organizing a mathematics trail, Kay Owens, John Pattison and Ed Lewis.....	27
The travel game: An adaptable context for adding mathematical value to lessons at any level, Allan White and John Hastings .....	31
Supporting mathematics learning through English language teaching strategies, Marilyn Murray .....	35
Introducing mathematics topics through storytelling and problem solving, Heather McMaster .....	41
Mathematical modelling in Stages 5 and 6, Paul White .....	45

### REFLECTIONS ON TECHNOLOGY

Number systems Internet assignment, John Ley and Caroline Chisholm .....	48
The other calculators, Bruce Llewellyn .....	51
Can we use those good calculators? Rob Rowland.....	53
What's new in mathematics software: 2002, Stephen Arnold.....	56
Spreadsheets in Stage 4 Mathematics, Ted Duffy and Greg Murty .....	58
Ideas for using spreadsheets in HSC calculus courses, Sabita D'Souza and Mary Coupland .....	59
Representing motion with Wingeom, Peter Hickey .....	66
Exploring and developing mathematics concepts with CD-ROMs, Cyril Quinlan .....	69
Teaching mathematics with Powerpoint, Michael Palme.....	71
Technology and General Maths: Mad if you don't, Stephen Arnold.....	75

### REFLECTIONS ON ASSESSMENT

What does SNAP tell us about Year 7 students' numeracy achievement? Jill Everett and Amanda Atkinson .....	79
'Everything in moderation', Garry Webb.....	83

### MANSW CONFERENCE

Conference Program.....	87
Conference Participants .....	90