Contents

	Page
PREFACE	(i)
INTRODUCTION	1
TEACHERS' NOTES	
Stages in an investigation	2
Using investigations in the classroom	4
Classroom discussion of investigative thinking	9
Using a computer in investigations	10
ADVICE FOR STUDENTS	
 Getting started (preliminary skirmishing) 	12
Taking a break (gestating)	14
3. Exploring systematically	15
4. Making conjectures	17
5. Testing conjectures	20
6. Explaining or justifying	23
7. Reorganising	24
8. Elaborating	26
9. Summarising	26
INVESTIGATIONS	31
40 Mathematical Investigations	33
HINTS AND EXTENSIONS	55
Using the hints and extensions	57
REPRODUCTION MASTERS	105