Developing Thinking in Algebra

John Mason, with Alan Graham and Sue Johnston-Wilder





The Open University in association with Paul Chapman Publishing

Contents

Authors Book Series Developing Thinking in Algebra	v vi vii
Block 1	
 1 First Encounters with Expressing Generality 2 Using Mathematical Powers; Meeting Mathematical Themes 3 Using Symbols 4 Depicting Relationships 	26 46 67
Block 2	
 5 More Experience of Expressing Generality 6 More on Powers, More on Themes 7 Symbol Manipulation 8 Changing Representations 	92 114 132 153
Block 3	
 9 Yet More Expressing Generality 10 Solving Problems 11 Reasoning 12 Graphs and Diagrams 	178 198 220 240
Block 4	
13 Themes and Structure14 Powers, Constructs and Strategies15 Final Reflections	266 283 297
Epilogue References Index	31. 310 320