Contents The abanismismos bree anilyticall SIDATTA 126

	Introduction to First Edition Introduction to Second Edition		Xi
1	Everyone can start		1
0	INCLUSION TO THE PARTY OF THE P		1
	Specializing Generalizing		8
	Writing yourself notes		9
	Review and preview		21
	Reference		23
			25
2	Phases of work		24
	Three phases		25
	The Entry phase		26
	Entry 1: What do I KNOW?		27
	Entry 2: What do I WANT?		30
	Entry 3: What can I INTRODUCE?		32
	Entry summarized		35
	The Attack phase		35
	The Review phase		36
	Review 1: CHECK the resolution		37
	Review 2: REFLECT on the key idea	as and key moments	38
	Review 3: EXTEND to a wider cont	ext	38
	Practising Review		40
	Review summarized		42
	The three phases summarized		43
	Reference		44
3	Responses to being STUCK		45
	Being STUCK		45
			56
			00
4			58
081			58
	Conjecture: backbone of a resolution		62
	How do conjectures arise?		70
	Discovering pattern		73
	Summary		76

	5 ATTACK: justifying and convin	cina	78
	Structure		9
	Seeking structural links		78
	When has a conjecture been justified	?	82
	Developing an internal enemy		86
	Summary		90
	Reference		
	6 Still STUCK?		95
			96
	Distilling and mulling		97
	Specializing and generalizing		99
	Hidden assumptions		101
	Summary References		103
	References		104
	7 Developing an internal monitor	continued, photocopying	400
	Roles of a monitor		105
	Emotional snapshots		106
	Getting started		108
	Getting involved		109
	Mulling		111
	Keeping going		112
	Insight		114 115
	Being sceptical		117
	Contemplating		118
	Summary		118
8	On becoming your own question	Keview 2: KEPLECT OF ME	
	A spectrum of questions	Practising Review	20
	Some 'questionable' circumstances		121
	Noticing	The three chases summarized	122
	Obstacles to a questioning attitude	Palarance	127
	Summary		129
			131
0		Street record of the	32
9	Developing mathematical thinkin		33
	Improving mathematical thinking		34
	Provoking mathematical thinking		37
	Supporting mathematical thinking	Complemental control of the state of	39
	Sustaining mathematical thinking		40
	Summary		44
	Reference		45

10	Something to think about	146
	References	180
11	Thinking mathematically in curriculum topics	181
	Place value and arithmetic algorithms	182
	Factors and primes	184
	Fractions and percentages	188
	Ratios and rates	191
	Equations	196
	Patterns and algebra	198
	Graphs and functions	202
	Functions and calculus	206
	Sequences and iteration	210
	Mathematical induction	213
	Abstract algebra	215
	Perimeter, area and volume	220
	Geometrical reasoning	223
	Reasoning as have been allowed by the state of the state	226
	References	230
12	Powers, themes, worlds and attention	231
	Natural powers and processes	231
	Mathematical themes	236
	Mathematical worlds	238
	Attention	239
	Summary as marks make possured or wood a situlisonement swit	240
Bibl	liography	241
Sub	243	
	ex of questions	247