## **Inventive Strategies for Teaching Mathematics**

Ø

## **Implementing Standards for Reform**

James A. Middleton and Polly Goepfert

à,

. 1

		·.	
	TABLE OF CONT	ĔN 14S	!
vii Pref	ce .	ð	_
1 Intro	uction		
	A True Story: F A Call for Char The Curriculum The Professiona The Assessment Statement of Ra	Rachel age: NCTM Reform Standards a and Evaluation Standards for School Mathemat l Standards for Teaching Mathematics Standards for School Mathematics ationale and Goals	ics
17 Goal	<b>Dne: Building a New</b> A Vignette Social Construc	<b>Understanding of the Nature of Mathema</b> ctivism: Knowing and Doing	tics
<sup>25</sup> Goal	<b>Two: Building and C</b> A <i>Traditional</i> A A <i>Context</i> Appr The Nature of T Principles for C The Role of Mc Self-Directed A	<b>hoosing Curricula</b> pproach to Volume coach to Volume Mathematical Activity Choosing and Designing Curricula odels in Teaching Mathematical Concepts ctivities: Thinking About the <i>Curriculum Stan</i>	dards
55 Goal	<b>Three: Building Teac</b> Thinking Abou Planning Questioning Self-Directed A	c <b>hing Strategies</b> t Teaching Philosophies ctivities: Thinking About the <i>Teaching Standa</i>	rds
73 Goal	Four: Building a Bala A Personal Not Assessment ver A First-Grade T Assessment Ass Benchmark Op Assessment Eve What About Gu Self-Directed A	nced Assessment Strategy e from Polly: Choosing a Strategy sus Evaluation Feacher's Reflections sumptions portunities ents rading? ctivities: Thinking About the Assessment Stand	lards

المحجر .

## <sup>113</sup> Goal Five: Finding Resourcesto Help

Innovative Curriculum Projects Elementary Projects Middle-School Projects High School Projects Assessment Technology Parents Family Math Nights Teacher Teams Administration and the School Board The National Council of Teachers of Mathematics

## <sup>147</sup> Reflections

A True Story: Rachel Part II Conclusion

153 Glossary

Å

450

157 References

<sup>165</sup> About the Authors