



# Contents

<i>Principles to Actions</i> Writing Team.....	v
<b>Preface</b> .....	vii
<b>Acknowledgments</b> .....	ix
<b>Progress and Challenge</b> .....	1
<b>Effective Teaching and Learning</b> .....	7
Establish Mathematics Goals to Focus Learning.....	12
Implement Tasks That Promote Reasoning and Problem Solving.....	17
Use and Connect Mathematical Representations.....	24
Facilitate Meaningful Mathematical Discourse.....	29
Pose Purposeful Questions.....	35
Build Procedural Fluency from Conceptual Understanding.....	42
Support Productive Struggle in Learning Mathematics.....	48
Elicit and Use Evidence of Student Thinking.....	53
<b>Essential Elements</b> .....	59
Access and Equity.....	59
Curriculum.....	70
Tools and Technology.....	78
Assessment.....	89
Professionalism.....	99
<b>Taking Action</b> .....	109
Leaders and Policymakers in All Districts and States or Provinces.....	110
Principals, Coaches, Specialists, and Other School Leaders.....	112
Teachers.....	114
<b>References</b> .....	119