



Contents

<i>Principles to Actions</i> Writing Team	vii
Foreword	ix
Preface	xiii
Acknowledgments	xv
Progress and Challenge	1
Effective Teaching and Learning	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
Essential Elements	59
Access and Equity	59
Curriculum	70
Tools and Technology	78
Assessment	89
Professionalism	99
Taking Action	109
Leaders and Policymakers in All Districts and States or Provinces	110
Principals, Coaches, Specialists, and Other School Leaders	112
Teachers	114
References	119