Contents

	INTRODUCTION	1
	Connecting Classroom Practice with Research	1
	Instead of, What if?	
1	CONSIDERATIONS AND CHALLENGES FOR INTEGRATING TECHNOLOGY IN MATH TEACHING	_
	What Is School Math?	
	Standards for Technology and Math	9
2	MOVING FROM GIMMICKS TO TOOLS FOR TEACHING RICH MATH	13
	Technology as a Motivational Tool	14
	Teaching Practices that Support Math Learning	
	What Does the Research Say?	
	Reflecting on Technology in Math Teaching	
	Recommendations for Practice	
	Connecting Cases with Standards	
3	MOVING FROM INDIVIDUALIZED INSTRUCTION	
	TO TECHNOLOGY FOR COLLABORATIVE LEARNING	29
	Technology as a Collaborative Tool.	30
	Teaching Practices that Support Math Learning	30
	What Does the Research Say?	40
	Reflecting on Technology in Math Teaching	42
	Recommendations for Practice	44
	Connecting Cases with Standards	46
4	MOVING FROM ASSESSING WHAT STUDENTS	
4	KNOW TO ELICITING HOW STUDENTS UNDERSTAND	49
	Leveraging Students' Mathematical Understanding	50
	What Does the Research Say?	
	Reflecting on Technology in Math Teaching	
	Recommendations for Practice	
	Connecting Cases with Standards	

5	MOVING FROM TEACHER-CENTERED TO STUDENT-CENTERED INSTRUCTION	65
	Technology as a Representational Tool	66
	Empowering Student-Driven Math Learning	66
	What Does the Research Say?	73
	Reflecting on Technology in Math Teaching	75
	Recommendations for Practice	77
	Connecting Cases with Standards	79
6	MOUING FROM TECHNOLOGY FOR ITS OWN SAKE	
	TO TECHNOLOGY FOR RICH MATH LEARNING	81
	Technology as an Educational Tool	82
	Teaching and Learning Math with Technology	82
	What Does the Research Say?	92
	Reflecting on Technology in Math Teaching	94
	Recommendations for Practice	96
	Connecting Cases with Standards	98
7	A TOOL FOR INTEGRATING TECHNOLOGY INTO YOUR MATH CLASSROOM	101
	REFERENCES	105
	ISTE STANDARDS	119
	ISTE Standards for Students	119
	ISTE Standards for Educators	
	INDEX	127