

Contents

Introduction	1
Organization for This Book	2
Foundational Premises	3
CHAPTER 1	
Paths to Technology Integration	9
Integration Approaches	13
Types of Integration Approaches	16
Collaborations with Colleagues	22
Project-Based Learning	24
Technologies to Support Bloom’s Taxonomy	28
CHAPTER 2	
Digital-Age Teaching and the ISTE Standards for Students	33
ISTE Standards for Students	34
CHAPTER 3	
COPPA, Internet Safety, Information Literacy, and Copyright	49
Children’s Privacy Laws	50
Internet Safety	53
Information Literacy	55
Copyright for K–12	57
CHAPTER 4	
Realities of Technology in Schools and Districts	61
The Challenge of Change	62
Affordances of Digital Devices	63
Technology in Schools	69
CHAPTER 5	
Leveraging Technology for Visual Learning	75
Drawings	76
Photography	82

Contents

Key Skills for Using Pictures	87
Developing Themes	90
Creating Visuals.....	102
Instructing with Visuals	124
CHAPTER 6	
Leveraging Technology for Auditory Learning	137
Listening	138
Writing	143
Blogging.....	152
Audio Recorders.....	166
CHAPTER 7	
Leveraging Technology for Kinesthetic/Tactile Learning.....	173
Roles in the Classroom.....	175
Hands-On Inquiry	175
Physical Simulations of Virtual Worlds	176
Touchscreen Devices	177
Citizen Science.....	179
Virtual Experiences	180
Magnification	186
Robotics.....	188
CHAPTER 8	
Leveraging across Learning Preferences	193
Multiple Content Area Interactives.....	194
Language Arts Interactives.....	194
Multimedia Reading Materials	195
Math Interactives	198
Science Interactives	199
Social Studies Interactives.....	201
Critical Thinking and Problem-Solving Interactives.....	202
Digital Storytelling.....	204
Website Design	205

Provider-Specific Tools	206
Video Conferencing.....	212
Collaboration Resources	214
Digital Video Production.....	216
Programming	226
CHAPTER 9	
Leveraging Technology for Multilingual Learners	231
Visual Supports.....	232
Language Assistance	235
Native Language Use	236
Website Support.....	237
Dual-Language Materials	238
Dual-Language Projects.....	238
Learning about America.....	239
Assisted Writing.....	239
Resources	240
CHAPTER 10	
Leveraging Technology to Meet Adaptive Needs	241
Organization Assistance.....	242
Speech to Text.....	243
Text to Speech.....	243
Reading Support	244
Feedback Options	245
Collaboration Opportunities.....	246
Assistive Apps.....	247
CHAPTER 11	
Leveraging Technology for Teacher Efficiency and Effectiveness	249
Social Platforms	250
Learning Management Systems	253
Aggregator Sites for Content Areas.....	256
Instructional Support Websites	259

Contents

Professional Development Resources	263
Assessment	267
Teacher Instructional Resources Highlighted in This Chapter	271
Final Thoughts.....	274
APPENDIX A	
ISTE Standards for Educators	275
APPENDIX B	
References	279
Index	281