

CONTENTS

| | |
|---|-----------|
| INTRODUCTION | XI |
| CHAPTER 1 | |
| FOCUS ON THE LEARNING, NOT THE PRODUCT | 1 |
| Developing a Project Mindset | 3 |
| Setting a Foundation for Project Success | 10 |
| Lesson Plans | 14 |
| LESSON PLAN 1.1 Weather Forecast Project | 14 |
| LESSON PLAN 1.2 Hacking Science Labs | 19 |
| LESSON PLAN 1.3 Book Trailers | 24 |
| Coach's Connection | 28 |
| CHAPTER 2 | |
| CREATING CREATIVE COMMUNICATORS | 35 |
| Motivate Students to Create Quality Work | 37 |
| Engage Shy and Introverted Students | 40 |
| Help Students Understand the Importance of Design | 41 |

| | |
|--|----|
| Lesson Plans | 49 |
| LESSON PLAN 2.1 PechaKucha Presentations | 49 |
| LESSON PLAN 2.2 Life Cycles Jigsaw Research Project | 53 |
| LESSON PLAN 2.3 Math Jigsaw Project | 57 |
| LESSON PLAN 2.4 Student-Created Tutorial Videos | 61 |
| Coach's Connection | 65 |

CHAPTER 3

COLLABORATE FOR SUCCESS 73

| | |
|---|-----|
| Some Lesser-Known Educator Sharing Tools | 75 |
| Enhance Projects with Content Experts | 76 |
| Provide an Authentic Audience | 79 |
| Engaging Students in Peer Review | 82 |
| Lesson Plans | 88 |
| LESSON PLAN 3.1 Algorithmic Thinking Project | 88 |
| LESSON PLAN 3.2 Pick Your Path Stories | 92 |
| LESSON PLAN 3.3 Invent It Challenge | 96 |
| LESSON PLAN 3.4 Student-Led Citizen Science | 100 |
| Coach's Connection | 104 |

CHAPTER 4

DESIGNING MEANINGFUL PROJECTS 111

| | |
|---------------------------------|-----|
| Make Presentations Meaningful | 112 |
| Establish an Authentic Purpose | 116 |
| Get Started with Brainstorming | 120 |
| Transforming Take-Home Projects | 122 |

| | |
|---|-----|
| Lesson Plans | 127 |
| LESSON PLAN 4.1 Historical Thinking Project | 127 |
| LESSON PLAN 4.2 The Feynman Project | 132 |
| LESSON PLAN 4.3 Garden Tiered Project | 137 |
| LESSON PLAN 4.4 Carnival Math Tiered Project | 141 |
| Coach's Connection | 145 |

CHAPTER 5

PLANNING FOR THE UNEXPECTED 155

| | |
|--|-----|
| Preparing for Teachable Moments | 156 |
| Inquiry and Wonder Wall Lessons | 163 |
| Creating an Environment to Support Spontaneity | 164 |
| Exploring Data Analytics During Spontaneous Projects | 166 |
| Lesson Plans | 168 |
| LESSON PLAN 5.1 Current Events Research Project | 168 |
| LESSON PLAN 5.2 Inquiry Expeditions | 172 |
| LESSON PLAN 5.3 Improv Presentations | 176 |
| Coach's Connection | 179 |

CHAPTER 6

MAKE THE MOST OF YOUR TIME 185

| | |
|--|-----|
| Goals, Reminders, and Inspiration | 186 |
| Time Management | 187 |
| Time-Management Tools and Strategies | 189 |
| Engaging the Audience During Presentations | 195 |

| | |
|--|------------|
| Lesson Plans | 199 |
| LESSON PLAN 6.1 Virtual Field Trips | 199 |
| LESSON PLAN 6.2 Tell Me Something I Don't Know | 203 |
| LESSON PLAN 6.3 Character Debates Project | 206 |
| Coach's Connection | 209 |
| Parting Thoughts | 215 |
| | |
| APPENDIX A | |
| EDTECH COACHES PROFESSIONAL LEARNING COURSE MODEL | 216 |
| | |
| APPENDIX B | |
| PROJECT EXAMPLES | 217 |
| | |
| APPENDIX C | |
| ADVENTURES IN AUTHENTIC LEARNING TOOLBOX | 218 |
| | |
| REFERENCES | 219 |
| | |
| INDEX | 222 |