

TABLE of Contents

UNIT 1: Thinking like a Scientist	2
Lesson 1: Safety	4
Lesson 2: Science and Scientists	7
Lesson 3: Observations and Inferences	10
UNIT 2: Matter and Energy	16
Lesson 1: Classifying Matter	18
Lesson 2: Measuring Length	23
Lesson 3: Measuring Mass	28
Lesson 4: Measuring Volume	33
Lesson 5: Density	36
Lesson 6: States of Matter	44
Lesson 7: Boiling and Freezing/Melting Points	50
Lesson 8: Conductors and Insulators	57
Lesson 9: Mixtures and Solutions	60
UNIT 3: Force, Motion, and Energy	66
Lesson 1: Force and Motion	68
Lesson 2: Electrical Energy	77
Lesson 3: Reflection and Refraction of Light	81

TABLE of Contents

UNIT 4: Earth and Space, Part 1	88
Lesson 1: The Water Cycle.....	90
Lesson 2: The Sun, Earth, and Moon	98
Lesson 3: The Rotation of Earth	103
UNIT 5: Earth and Space, Part 2.....	112
Lesson 1: Earth’s Changing Surface	114
Lesson 2: Sedimentary Rock.....	123
Lesson 3: Alternative Energy Resources.....	127
Lesson 4: Past Living Organisms	133
UNIT 6: Organisms and Environments, Part 1	142
Lesson 1: Interactions of Organisms in Their Environments	144
Lesson 2: Food Chains and Food Webs.....	149
Lesson 3: A Balanced Environment.....	159
UNIT 7: Organisms and Environments, Part 2	166
Lesson 1: Structures and Functions of Organisms.....	168
Lesson 2: Inherited Traits and Learned Behaviors.....	173
Lesson 3: Complete and Incomplete Metamorphosis	179
Appendix.....	188
Science Notebook Guidelines	188
Drawings and Diagrams Guidelines	190

