

Table Of Contents

INTRODUCTION	From The Creator.....i A Teacher's Perspective.....v Table Of Contents.....vii LLWS One Program Overview.....ix How To Use The Unit Planner.....xiii How To Use The Activity Planner.....xv
UNIT 1. LEARNING TO OBSERVE AND DESCRIBE: LEARNING THE LANGUAGE OF SCIENCE	UNIT 1. PLANNER - Learning To Observe And Describe.....1 TOPIC 1. LEARNING ABOUT PROPERTIES AND SYSTEM DESCRIPTION.....5 Activity 1. Organizing Observations With Science.....17 Activity 2. Observations And Properties.....21 Activity 3. Describing Properties: The Property Analyzer.....25 TOPIC 2. USING OUR SENSES TO OBSERVE THE PHYSICAL WORLD.....29 Activity 4. All Animals Have Senses.....39 Activity 5. A Sensory Circus.....41 Activity 6. Sensing Properties.....49 TOPIC 3. SORTING AND GROUPING WITH PROPERTIES.....51 Activity 7. Sorting With Properties: The Sorting Analyzer.....53 Activity 8. Sorting Objects In The Natural World.....57 Activity 9. Sorting Everyday.....59 TOPIC 4. DESCRIBING THE WORLD WITH PATTERNS.....61 Activity 10. Who And What Is Here? The Element Analyzer.....63 Activity 11. Arranging Elements: The Rules Of Arrangement.....67 Activity 12. Where Is It? The Background Space.....71 TOPIC 5. MAKING SCIENTIFIC OBSERVATIONS WITH THE LANGUAGE OF PATTERNS.....75 Activity 13. Making Observations Count: The Element Counter.....77 Activity 14. Detecting Patterns And Relationships.....79 Activity 15. Asking "What If-Then" Questions About Patterns.....85 Activity 16. Finding Patterns In Time.....91



UNIT 2 LEARNING ABOUT LIVING THINGS: PROPERTIES, PARTS, AND PATTERNS	UNIT 2. PLANNER - Learning About Living Things.....95 TOPIC 6. LIVING AND NON-LIVING.....97 Activity 17. Living And Non-Living Grab Bag.....107 Activity 18. Properties Of Living Things.....111 TOPIC 7. PLANTS: PARTS AND PATTERNS.....113 Activity 19. Growing A Plant From A Seed.....115 Activity 20. The Elements Of Plants.....119 Activity 21. Powered By The Sun: Green Leaves And Plants.....123 TOPIC 8. SORTING AND GROUPING ANIMALS.....127 Activity 22. My Favorite Animal Report.....129 Activity 23. Diversity In Form, Unity In Purpose.....131 Activity 24. Making An Animal Park.....135
UNIT 3. ROCKS AND SOIL: THE STORY IN THE EARTH	UNIT 3. PLANNER - Rocks And Soil: The Story In The Earth.....143 Activity 25. Exploring A Sample Of The Earth.....151 Activity 26. Building A Rock Collection.....157 Activity 27. Natural Magnetism: Magnetite.....163 Activity 28. Breaking Boulders: Big Rocks To Small Rocks.....167 Activity 29. Where Does Soil Come From?.....171
UNIT 4. A REVIEW OF WHAT I HAVE LEARNED	UNIT 4. A Review Of What I Have Learned.....175 Activity 30. Learning Review.....177 Activity 31. Planning And Reporting A Field Trip.....183
APPENDIX	Appendix A. Level One Vocabulary.....187 Appendix B. SymmetryScience™ Discovery Center Materials.....193 Appendix C. Materials Lists By Activity.....195

