



# Teaching Responsible Earth Education



## SUNSHIP III™

SCIENCE – 7<sup>th</sup> grade

100% State Content Standards Addressed  
27% State Benchmarks Met with Relevant GLEs

Louisiana Standards and Benchmarks with Relevant GLEs		Foundation Skills	Outdoor Classroom Activity
<b>Science As Inquiry</b> <b>Standard: Students will do science by engaging in partial and full inquiries that are within their developmental capabilities.</b>			
SI-M-A6	Comparing alternative explanations and predictions;	1, 3, 4	Commencement Sharing Circles
SI-M-A7	Communicating scientific procedures, information, and explanations;	1, 3	Solarville Cycle Factory Museum Project Temple of SOL
GLE	Science As Inquiry 19. Communicate ideas in a variety of ways (e.g., symbols, illustrations, graphs, charts, spreadsheets, concept maps, oral and written reports, equations).		
<b>Physical Science</b> <b>Standard: Students will develop an understanding of the characteristics and interrelationships of matter and energy in the physical world.</b>			
PS-M-C3	Understanding that the sun is a major source of energy and that energy arrives at the Earth's surface as light with a range of wavelengths;	2, 3, 4	Solarville Daily Lifestyle Analysis
PS-M-C7	Understanding that energy is involved in chemical reactions;	2, 4	Solarville
PS-M-C8	Comparing the uses of different energy resources and their effects upon the environment;	1, 2, 3, 4, 5	Solarville Daily Lifestyle Analysis Commencement Sharing Circles
<b>Life Science</b> <b>Standard: The students will become aware of the characteristics and life cycles of organisms and understand their relationships to each other and to their environment.</b>			
LS-M-C2	Modeling and interpreting food chains and food webs;	1, 2, 3, 4	Solarville Temple of SOL

GLE	Populations and Ecosystems 24. Analyze food webs to determine energy transfer among organisms.		
LS-M-C3	Investigating major ecosystems and recognizing physical properties and organisms within each;	1, 2, 3, 4, 5	Museum Project
LS-M-C4	Explaining the interaction and interdependence of nonliving and living components within ecosystems;	1, 2, 3, 4, 5	Museum Project Temple of SOL Sharing Circles
LS-M-D1	Describing the importance of plant and animal adaptation, including local examples;	1, 3, 4, 5	Museum Project
LS-M-D2	Explaining how some members of a species survive under changed environmental conditions;	1, 2, 3, 4, 5	Museum Project
GLE	Adaptations of Organisms 32. Describe changes that can occur in various ecosystems and relate the changes to the ability of an organism to survive. 34. Explain how environmental factors impact survival of a population.		

### ***Earth and Space Science***

***Standard: The students will develop an understanding of the properties of earth materials, the structure of the Earth system, and the Earth's history, and the Earth's place in the universe.***

ESS-M-B1	Investigating how fossils show the development of life over time;	2, 3, 4	Museum Project
ESS-M-B3	Understanding that the earth processes such as erosion and weathering affect the Earth today and are similar to those which occurred in the past;	1, 2, 3, 4	Museum Project
ESS-M-C1	Identifying the characteristics of the sun and other stars;	1, 2, 3, 4	Solarville
ESS-M-C2	Comparing and contrasting the celestial bodies in our solar system;	2, 4	Solarville
ESS-M-C5	Modeling the position of the Earth in relationship to other objects in the solar system;	1, 2, 3, 4	Solarville

### ***Science and the Environment***

***Standard: In learning environmental science, students will develop an appreciation of the natural environment, learn the importance of environmental quality, and acquire a sense of stewardship. As consumers and citizens, they will be able to recognize how our personal, professional, and political actions affect the natural world.***

SE-M-A1	Demonstrating knowledge that an ecosystem	1, 3, 4, 5	Commencement
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GLE	includes living and nonliving factors and the humans are an integral part of ecosystems;  Science and the Environment 34. Identify resources humans derive from ecosystems.		Cycle Factory Museum Project Temple of SOL Endangered Species Ceremony Sharing Circles Quest
SE-M-A2	Demonstrating an understanding of how carrying capacity and limiting factors affect plant and animal populations;	1, 2, 3, 4, 5	Commencement Endangered Species Ceremony Sharing Circles Quest
SE-M-A3	Defining the concept of pollutant and describing the effects of various pollutants on ecosystems;	1, 2, 3, 4, 5	Commencement Cycle Factory Endangered Species Ceremony Daily Lifestyle Analysis Sharing Circles Quest
SE-M-A4  GLE	Understanding that human actions can create risks and consequences in the environment;  Science and the Environment 39. Analyze the consequences of human activities on ecosystems.	1, 2, 3, 4, 5	Commencement Solarville Cycle Factory Museum Project Temple of SOL Endangered Species Ceremony Daily Lifestyle Analysis Sharing Circles Waste Watchers Quest
SE-M-A5  GLE	Tracing the flow of energy through an ecosystem and demonstrating a knowledge of the roles of producers, consumers, and decomposers in the ecosystem;  Science and the Environment 40. Construct or draw food webs for various ecosystems.	1, 2, 3, 4, 5	Solarville Temple of SOL
SE-M-A6	Distinguishing between renewable and nonrenewable resources and understanding that nonrenewable natural resources are not replenished through the natural cycles and thus are strictly limited in quantity;	1, 2, 3, 4, 5	Commencement Solarville Endangered Species Ceremony Daily Lifestyle Analysis Sharing Circles Quest

SE-M-A7	Demonstrating knowledge of the natural cycles, such as the carbon cycle, nitrogen cycle, water cycle, and oxygen cycle;	1, 2, 4	Cycle Factory Temple of SOL
GLE	Science and the Environment 42. Describe how photosynthesis and respiration relate to the carbon cycle.		
SE-M-A8	Investigating and analyzing how technology affects the physical, chemical, and biological factors in an ecosystem;	1, 2, 3, 4, 5	Commencement Solarville Cycle Factory Endangered Species Ceremony Daily Lifestyle Analysis Sharing Circles Quest
GLE	Science and the Environment 43. Identify and analyze the environmental impact of humans' use of technology (e.g., energy production, agriculture, transportation, human habitation).		



# Teaching Responsible Earth Education



**SUNSHIP III™**  
**ENGLISH/LANGUAGE ARTS– 7<sup>th</sup> grade**  
**86% State Content Standards Addressed**  
**40% State Benchmarks Met with Relevant GLEs**

Louisiana Standards and Benchmarks with Relevant GLEs		Foundation Skills	Outdoor Classroom Activity
<b><i>Standard One: Students read, comprehend, and respond to a range of materials, using a variety of strategies for different purposes.</i></b>			
ELA-1-M3  GLE	Reading, comprehending, and responding to written, spoken, and visual texts in extended passages;  Reading and Responding 4. Draw conclusions and make inferences in oral and written responses about ideas and information in grade-appropriate texts, including: <ul style="list-style-type: none"> <li>• instructional materials</li> <li>• essays</li> <li>• dramas</li> </ul>	1, 3, 4	Commencement Solarville Cycle Factory Museum Project Temple of SOL Objet Trouve Endangered Species Ceremony Sharing Circles Ledger Magic Spots Daily Lifestyle Analysis Quest
ELA-1-M5	Adjusting reading rate according to texts and purposes for reading;	1, 2, 4, 5	Solarville Cycle Factory Museum Project Temple of SOL Objet Trouve Ledger Magic Spots Daily Lifestyle Analysis Quest
<b><i>Standard Two: Students write competently for a variety of purposes and audiences.</i></b>			
ELA-2-M6	Writing as a response to texts and life experiences (e.g., letters, journals, lists);	1, 2, 4	Ledger Magic Spots Daily Lifestyle Analysis

<b>Standard Three: Students communicate using standard English grammar, usage, sentence structure, punctuation, capitalization, spelling, and handwriting.</b>			
ELA-3-M1	Writing fluidly and legibly in cursive or printed form;	1, 4	Solarville Cycle Factory Museum Project Objet Trouve Ledger Quest
<b>Standard Four: Students demonstrate competence in speaking and listening as tools for learning and communicating.</b>			
ELA-4-M1	Speaking intelligibly, using standard English pronunciation and diction;	1, 4	Objet Trouve Daily Lifestyle Analysis Sharing Circle
GLE	Speaking and Listening 28. Adjust diction and enunciation to suit the purpose for speaking. 29. Use Standard English grammar, diction, syntax, and pronunciation when speaking.		
ELA-4-M2	Giving and following directions/procedures;	1, 4	Registration Solarville Museum Project Cycle Factory Temple of SOL Objet Trouve Daily Lifestyle Analysis
GLE	Speaking and Listening 30. Follow procedures (e.g., read, question, write a response, form groups) from detailed oral instructions.		
ELA-4-M3	Using the features of speaking when giving rehearsed and unrehearsed presentations;	1, 2, 4	Object Trouve
GLE	Speaking and Listening 32. Adjust volume and inflection to suit the audience and purpose of presentations.		
ELA-4-M4	Speaking and listening for a variety of audiences and purposes	1, 2, 4, 5	Commencement Solarville Cycle Factory Museum Project Temple of SOL Objet Trouve Endangered Species Ceremony Sharing Circles Daily Lifestyle Analysis Quest

ELA-4-M5	Listening and responding to a wide variety of media;	1, 3, 4, 5	Commencement Daily Lifestyle Analysis
ELA-4-M6  GLE	Participating in a variety of roles in group discussions;  Speaking and Listening 38. Participate in group and panel discussions, including: <ul style="list-style-type: none"> <li>• Explaining the effectiveness and dynamics of group process</li> <li>• Applying agreed-upon rules for formal and informal discussions</li> <li>• Assuming a variety of roles (e.g., facilitator, recorder, leader, listener)</li> </ul>	1, 4, 5	Museum Project Temple of SOL Objet Trouve Sharing Circle Menu
<b>Standard Five: Students locate, select, and synthesize information from a variety of texts, media, references, and technological sources to acquire and communicate knowledge.</b>			
ELA-5-M3  GLE	Locating, gathering, and selecting information using graphic organizers, outlining, note taking, summarizing, interviewing, and surveying to produce documented texts and graphics;  Information Resources 42. Gather and select information using data-gathering strategies/tools, including: <ul style="list-style-type: none"> <li>• Surveying</li> <li>• Interviewing</li> <li>• paraphrasing</li> </ul>	1, 3, 4	Quest
ELA-5-M6  GLE	Interpreting graphic organizers;  Information Resources 46. Interpret information from a variety of graphic organizers including timelines, charts, schedules, tables, diagrams, and maps in grade-appropriate sources.	1, 2, 3, 4, 5	Temple of SOL
<b>Standard Seven: Students apply reasoning and problem solving skills to reading, writing, speaking, listening, viewing, and visually representing</b>			
ELA-7-M1	Using comprehension strategies in contexts;	1, 2, 4	Commencement Solarville Cycle Factory Museum Project Temple of SOL

			Objet Trouve Endangered Species Ceremony Sharing Circle Ledger Magic Spots Daily Lifestyle Analysis Mystery Passenger Menu Quest
ELA-7-M2  GLE	Problem solving by using reasoning skills, life experiences, accumulated knowledge, and relevant available information;  Reading and Responding 10. Explain the relationship between life experiences and texts to generate solutions to problems.	1, 2, 4	Solarville Museum Project Temple of SOL Daily Lifestyle Analysis Sharing Circle Mystery Passenger Menu





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## SUNSHIP III™

**SOCIAL STUDIES – 7<sup>th</sup> grade**  
**50% State Content Standards Addressed**  
**5% State Benchmarks Met with Relevant GLEs**

Louisiana Standards and Benchmarks with Relevant GLEs	Foundation Skills	Outdoor Classroom Activity
<b>Geography</b> <i>Standard: Students develop special understandings of Earth's surface and the processes that shape it, the connections between people and places, and the relationship between man and his environment.</i>		
G-1B-M3	Identifying criteria used to define regions and explaining how and why regions change;	1,2,3,4
G-1D-M1	Analyzing and evaluating the effects of human actions upon the physical environment;	1,2,3,4,5 Commencement Registration Solarville Cycle Factory Temple of SOL Sharing Circles Daily Lifestyle Analysis Endangered Species Ceremony Waste Watchers Quest
<b>Economics</b> <i>Standard: Students develop an understanding of fundamental economic concepts as they apply to the interdependence and decision making of individuals, households, businesses, and governments in the United States and the world.</i>		
E-1A-M1	Describing how the scarcity of resources necessitates decision making at both personal and societal levels;	1,2,4,5 Commencement Registration Solarville Cycle Factory Temple of SOL Daily Lifestyle Analysis Waste Watchers

			Quest
E-1A-M2	Analyzing consequences of economic decisions in terms of additional benefits and additional costs;	1,2,4	Solarville Daily Lifestyle Analysis
E-1A-M3	Analyzing the consequences and opportunity cost of economic decisions;	1,2,3,4	Solarville Daily Lifestyle Analysis



# Teaching Responsible Earth Education



## SUNSHIP III™

**MATHEMATICS – 7<sup>th</sup> grade**  
**17% State Content Standards Addressed**  
**11% State Benchmarks Met with Relevant GLEs**

Louisiana Standards and Benchmarks with Relevant GLEs	Foundation Skills	Outdoor Classroom Activity
<p><b><i>Number and Number Relations</i></b>  <b><i>Standard: In problem-solving investigations, students demonstrate an understanding of the real number system and communicate the relationships within that system using a variety of techniques and tools.</i></b></p>		
N-4-M	Demonstrating a conceptual understanding of the meaning of the basic arithmetic operations (add, subtract, multiply and divide) and their relationships to each other;	1,2
N-5-M	Applying an understanding of rational numbers and arithmetic operations to real-life situations;	1,2,3,4
N-6-M	Constructing, using, and explaining procedures to compute and estimate with rational numbers employing mental math strategies;	1,2,3,4
N-7-M	Selecting and using appropriate computational methods and tools for given situations involving rational numbers (e.g., estimation, or exact computation using mental arithmetic, calculator, computer, or paper and pencil);	2,3,4
		Registration Solarville Daily Lifestyle Analysis
		Registration Solarville Daily Lifestyle Analysis
		Solarville
		Registration Solarville Daily Lifestyle Analysis