



Teaching Responsible Earth Education



EARTHKEEPERS™

SCIENCE – 4TH grade

100% State Content Standards Addressed

37% State Benchmarks Met with Relevant GLEs

Louisiana Standards and Benchmarks with Relevant GLEs		Foundation Skills	Outdoor Classroom Activity
Standard One: Students will do science by engaging in partial and full inquiries that are within their developmental capabilities.			
SI-E-A3 GLE	Communicating that observations are made with one's senses; Science as Inquiry The Abilities to Do Scientific Inquiry 7. Use the five senses to describe observations.	1,3	Earthwalk E.M.'s Diary Walk Seasons Magic Spots S Key Components
SI-E-A6	Communicating observations and experiments in oral and written formats;	1,3	Munchline Monitors Great Spec-tackle Connection Inspection Time Capsules
SI-E-B6 GLE	Reviewing and asking questions about the results of investigations; Science as Inquiry Understanding Scientific Inquiry 21. Use evidence from previous investigations to ask additional questions and to initiate further explorations.	1,3,4	Munchline Monitors Connection Inspection Time Capsules
Standard Two: Students will develop an understanding of the characteristics and interrelationships of matter and energy in the physical world.			
PS-E-A1	Observing, describing, and classifying objects by properties (size, weight, shape, color, texture, and temperature);	4	Earthwalk
Standard Three: The students will become aware of the characteristics and life cycles of organisms and understand their relationships to each other and to their environment.			
LS-E-A1	Identifying the needs of plants and animals, based on age-appropriate recorded	1, 2, 3, 4	Munchline Monitors Great Spec-tackle

	observations;		Connection Inspection Earthkeepers Game Show S Key Components
LS-E-A4	Recognizing that there is great diversity among organisms;	1, 2, 3, 4	Munchline Monitors Connection Inspection Time Capsules
LS-E-B1 GLE	Observing and describing the life cycles of some plants and animals; Life Science Life Cycles of Organisms 47. Sequence stages in the life cycles of various organisms, including seed plants.	1, 2, 3, 4	Time Capsules
LS-E-B2 GLE	Observing, comparing, and grouping plants and animals according to likenesses and/or differences; Life Science Life Cycles of Organisms 48. Classify examples of plants and animals based on a variety of criteria.	1, 2, 3, 4, 5	Munchline Monitors Connection Inspection S Key Components
LS-E-C1	Examining the habitats of plants and animals and determining how basic needs are met within each habitat;	1, 2, 3, 4	Munchline Monitors S Key Components
LS-E-C2 GLE	Describing how the features of some plants and animals enable them to live in specific habitats; Life Science Organisms and Their Environment 52. Describe how some plants and animals have adapted to their habitats. 53. Identify the habitat in which selected organisms would most likely live and explain how specific structures help organisms to survive.	1, 2, 3, 4	Time Capsules S Key Components
LS-E-C3	Observing animals and plants and describing interaction or interdependence;	1, 2, 3, 4	Munchline Monitors Great Spec-tackle Connection Inspection Earthkeepers Game Show S Key Components

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

ESS-E-A1	Understanding that earth materials are rocks, minerals, and soils;	1, 2, 3, 4	Great Spec-tackle Time Capsules Earthkeepers Game Show S Key Components
GLE	Earth and Space Science Properties of Earth Materials 63. Demonstrate and explain how Earth's surface is changed as a result of slow and rapid processes (e.g., sand dunes, canyons, volcanoes, earthquakes).		
ESS-E-A3	Investigating, observing, and describing how water changes from one form to another and interacts with the atmosphere;	1, 2, 3, 4, 5	Great Spec-tackle Earthkeepers Game Show S Key Components
ESS-E-A5	Observing and communicating that rocks are composed of various substances;	1	Great Spec-tackle Time Capsules
GLE	Earth and Space Science Properties of Earth Materials 63. Demonstrate and explain how Earth's surface is changed as a result of slow and rapid processes (e.g., sand dunes, canyons, volcanoes, earthquakes).		
ESS-E-A7	Investigating fossils and describing how they provide evidence about plants and animals that lived long ago and the environment in which they lived;	1, 2, 3, 4	Time Capsules
ESS-E-B4	Modeling the revolution of Earth around the sun;	1,2,3,4	Earthkeepers Introduction
ESS-E-B5	Understanding that the sun, a star, is a source of heat and light energy and identifying its effects upon Earth;	1,2,3,4	Munchline Monitors Great Spec-tackle Connection Inspection S Key Components

Standard Five: In learning environmental science, students will develop an appreciation of the natural environment, learn the importance of quality, and acquire a sense of stewardship, as professional, and political actions affect the natural world.

SE-E-A1	Understanding that an "ecosystem" is made up of living and non-living components;	1, 2, 3, 4	Great Spec-tackle Time Capsules
SE-E-A2	Understanding the components of a food chain;	1, 2, 3, 4, 5	Munchline Monitors Connection Inspection Earthkeepers Game Show S Key Components
GLE	Science and the Environment		

	<p>71. Describe and explain food chains/webs and the directional flow of energy in various ecosystems (e.g., construct a model, drawing, diagram, graphic organizer).</p> <p>72. Predict and describe consequences of the removal of one component in a balanced ecosystem (e.g., consumer, herbivores, nonliving component).</p>		
SE-E-A3	Identifying ways in which humans have altered their environment, both in positive and negative ways, either for themselves or for other living things;	1, 2, 3, 4, 5	E.M.'s Lab Munchline Monitors Great Spec-tackle Connection Inspection Time Capsules Earthkeepers Game Show Y Key Components
SE-E-A4	Understanding that the original sources of all material goods are natural resources and that the conserving and recycling of natural resources is a form of stewardship;	1, 2, 3, 4, 5	Great Spec-tackle Connection Inspection Time Capsules Earthkeepers Game Show Recycling Model Y Key Components S Key Components
SE-E-A5	Understanding that most plant and animal species are threatened or endangered today due to habitat loss or change;	1, 2, 3, 4, 5	Connection Inspection Time Capsules Y Key Components



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ENGLISH/LANGUAGE ARTS - 4th grade

71% State Content Standards Addressed

37% State Benchmarks Met with Relevant GLEs

Louisiana Standards and Benchmarks with Relevant GLEs		Foundation Skills	Outdoor Classroom Activity
Standard One: Students read, comprehend, and respond to a range of materials, using a variety of strategies for different purposes.			
ELA-I-E1	Gaining meaning from print and building vocabulary using a full range of strategies, evidenced by reading behaviors using phonemic awareness, phonics, sentence structure, and meaning;	1, 2, 3, 4	Munchline Monitors Great Spec-tackle Connection Inspection Time Capsules E.M.'s Diary Walk S Key Components
ELA-I-E6 GLE	Interpreting texts to generate connections to real-life situations; Reading and Responding 8. Connect information in grade-appropriate texts to prior knowledge and real-life situations in oral and written responses.	1, 2, 3, 4, 5	Great Spec-tackle E.M.'s Diary Walk Earthkeepers Game Show S Key Components
ELA-I-E7 GLE	Reading with fluency (natural sequencing of words) for various purposes (e.g., enjoying, learning, problem solving); Reading and Responding 9. Increase oral and silent reading fluency and accuracy with grade-appropriate texts.	1, 2, 4	Munchline Monitors Great Spec-tackle Connection Inspection Time Capsules Earthwalk E.M.'s Diary Walk Seasons Magic Spots Key Ceremonies Y Key Components S Key Components
Standard Two: Students write competently for a variety of purposes and audiences.			

ELA-2-E6	Writing as a response to texts and life experiences (e.g., journals, letters, lists)	1, 2, 4	Connection Inspection E.M.'s Diary Walk Letters to E.M. Y Key Components S Key Components
Standard Four: Students demonstrate competence in speaking and listening as tools for learning and communicating.			
ELA-4-E1 GLE	Speaking intelligibly, using standard English pronunciation and diction; Speaking and Listening 34. Adjust pacing to suit purpose, audience, and setting when speaking.	1, 4	Munchline Monitors Great Spec-tackle Connection Inspection Time Capsules Earthwalk Key Ceremonies Earthkeepers Game Show Y Key Components S Key Components
ELA-4-E2 GLE	Giving and following directions/ procedures; Speaking and Listening 35. Interpret, follow, and give multi-step directions	1, 2, 3, 4	Earthkeepers Introduction E.M.'s Lab Munchline Monitors Great Spec-tackle Connection Inspection Time Capsules Earthwalk E.M.'s Diary Walk Magic Spots Seasons Key Ceremonies Earthkeepers Game Show Y Key Components S Key Components
ELA-4-E4	Giving rehearsed and unrehearsed presentations;	1, 2, 3, 4	Time Capsules Earthwalk Seasons Earthkeepers Game Show S Key Components
ELA-4-E5 GLE	Speaking and listening for a variety of audiences and purposes; Speaking and Listening 37. Demonstrate active listening strategies, including asking questions, responding to cues, and making eye contact.	1, 2, 3, 4, 5	Earthkeepers Introduction E.M.'s Lab Munchline Monitors Great Spec-tackle Connection Inspection Time Capsules Earthwalk E.M.'s Diary Walk Seasons Magic Spots Key Ceremonies Earthkeepers Game Show

			Recycling Model Y Key Components S Key Components
ELA-4-E6	Listening and responding to a wide variety of media;	1, 2, 3, 4, 5	E.M.'s Lab E.M.'s Diary Walk
ELA-4-E7 GLE	Participating in a variety of roles in group; Speaking and Listening 40. Identify the effectiveness and dynamics of group process and cooperative learning.	1, 2, 4, 5	Munchline Monitors Great Spec-tackle Connection Inspection Time Capsules Key Ceremonies Earthkeepers Game Show
Standard Five: Students locate, select, and synthesize information from a variety of texts, media, references, and technological sources to acquire and communicate knowledge.			
ELA-5-E6 GLE	Recognizing and using graphic organizers (e.g., charts/graphs, tables/schedules, diagrams/maps); Information Resources 50. Read and interpret timelines, charts, graphs, schedules, tables, diagrams, and maps generated from grade-appropriate materials.	1, 2, 3, 4	Munchline Monitors Time Capsules E.M.'s Diary Walk S Key Components
Standard Seven: Students apply reasoning and problem solving skills to their reading, writing, speaking, listening, viewing, and visually representing.			
ELA-7-E1	Using comprehension strategies to interpret oral, written, and visual texts;	1, 2, 3, 4	Munchline Monitors Great Spec-tackle Connection Inspection Time Capsules E.M.'s Diary Walk S Key Components
ELA-7-E2 GLE	Problem solving by using reasoning skills, life experiences, and available information; Reading and Responding 15. Justify solutions to problems in texts by verifying, confirming, and supporting.	1, 2, 3, 4, 5	Munchline Monitors Great Spec-tackle Connection Inspection Time Capsules Earthwalk E.M.'s Diary Walk Seasons Earthkeepers Game Show Recycling Model Y Key Components S Key Components
ELA-7-E4	Distinguishing fact from opinion, skimming and scanning for facts, determining cause and effect, generating inquiry, and making connections with real-life situations;	1, 2, 3, 4, 5	Munchline Monitors Great Spec-tackle Connection Inspection Time Capsules

GLE	<p>Reading and Responding</p> <p>19. Demonstrate understanding of information in grade-appropriate texts using a variety of strategies, including:</p> <ul style="list-style-type: none"> • Skimming and scanning texts for various purposes (e.g., locating information, verifying facts) • Identifying cause-effect relationships in texts and real-life situations • Generating questions to guide examination of topics in texts and real-life situations • Explaining connection between information from texts and real-life experiences 		<p>E.M.'s Diary Walk Earthkeepers Game Show S Key Components</p>
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EARTHKEEPERS™

SOCIAL STUDIES – 4th grade
50% State Content Standards Addressed
8% State Benchmarks Met with Relevant GLEs

Louisiana Standards and Benchmarks with Relevant GLEs	Foundation Skills	Outdoor Classroom Activity
<p>Geography <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></p>		
<p>Describing and comparing the physical characteristics of places, including land forms, bodies of water, soils, vegetation and climate;</p> <p>Places and Regions Describe and compare the distinguishing characteristics of various land forms, bodies of water, climates, and forms of vegetation in the United States.</p>	<p>1,3,4</p>	<p>E.M.'s Diary Walk S Key Components</p>
<p>Describing how the physical and human characteristics of places change over time;</p> <p>Places and Regions Explain physical and human developments in a region of the United States since it was first settled based on given information.</p>	<p>1,3,4</p>	<p>Time Capsules S Key Components</p>
<p>Describing how physical processes help to shape features and patterns on Earth's surface;</p> <p>Physical and Human Systems Identify physical processes that change Earth's surface and create physical features suddenly or over time (e.g., what physical processes created the Grand Canyon, the Great Lakes, the Hawaiian Islands).</p>		<p>E.M.'s Lab Time Capsules</p>
<p>G-ID-EI Identifying and explaining ways in which people depend upon and modify the physical</p>	<p>1,2,3,4</p>	<p>Munchline Monitors Connection Inspection</p>

	environment; Environment and Society Identify ways in which people in the United States depend upon and modify the physical environment.		Time Capsules S Key Components
Economics 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.			
	Recognizing that limited resources require people to make decisions; Fundamental Economic Concepts Demonstrate that limited resources necessitate choices and decisions.	1,2,4	E.M.'s Lab Recycling Model Y Key Components



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MATHEMATICS – 4th grade

33% State Content Standards Addressed

13% State Benchmarks Met with Relevant GLEs

Louisiana Standards and Benchmarks with Relevant GLEs		Foundation Skills	Outdoor Classroom Activity
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.			
N-6-E	Applying knowledge of basic math facts and arithmetic operations to real-life situations;	2,4,5	Munchline Monitors S Key Components
Standard: In problem-solving relationships, students discover trends, formulate conjectures regarding cause-effect relationships, and demonstrate critical thinking skills in order to make informed decisions.			
D-1-E	Collecting, organizing, and describing data based on real-life situations;	1,3,4,5	Munchline Monitors Time Capsules
GLE	Data Analysis, Probability, and Discrete Math 34. Summarize information and relationships revealed by patterns or trends in a graph, and use the information to make predictions.		
D-2-E	Constructing, reading, and interpreting data in charts, graphs, tables, etc.	1,2,3,4	Munchline Monitors S Key Components
D-4-E	Exploring, formulating, and solving sequence-of-pattern problems involving selection and arrangement of objects/numerals;	2,3,4	Time Capsules