

## Standard Alignments for Saltmarsh Program for grades 3, 4 and 5

Standards Type	Key Standards or Code	Standard Description	Instructional Activities
NYS Science Core Curriculum	<b>Scientific Inquiry</b> S 1.1 thru 1.3; S3.1 thru S3.3	Ask "why" questions in attempts to seek greater understanding concerning observed objects and events; seek clarification, organize objects/data through classification and use of simple charts and tables; interpret and recognize simple patterns/relationships.	The whole session is inquiry and discovery based. Students will use charts and keys as tools for species identification. Web of Life games will be used for students to recognize species interrelationships.
	<b>Standard 4 Living Environment</b>	<p><b>Key Idea 1:</b> Living things are both similar to and different from each other and nonliving things.</p> <p><b>Key Idea 3:</b> Individual organisms and species change over time.</p> <p><b>Key Idea 4:</b> The continuity of life is sustained through reproduction and development.</p> <p><b>Key Idea 5:</b> Organisms maintain a dynamic equilibrium that sustains life.</p> <p><b>Key Idea 6:</b> Plants and animals depend on each other and their physical environment.</p> <p><b>Key Idea 7:</b> Human decisions and activities have had a profound impact on the physical and living environment.</p>	<p>The Key ideas for Standard 4 are addressed throughout the program. Observations and discussions include organisms' life cycles; adaptations of plants and animals living in a constantly changing environment; nutrient cycles; a web of life game to demonstrate inter-relationships, plant and animal adaptations.</p> <p>Evidence of human impact is ever present and "captured" in the high marsh zone after high or storm tides.</p>
NYS Common Core	Supporting Standards	Description	Instructional Activities
Math	Operations and Algebraic Thinking	<p><b>Grade 3:</b> Represent and solve problems involving multiplication and division.</p> <p><b>Grade 4:</b> Use the four operations with whole numbers to solve problems.</p> <p><b>Grade 5:</b> Write and interpret numerical expressions. Analyze patterns and relationships.</p>	Estimating marsh snail populations by counting them in square foot quadrats, averaging the numbers, then extrapolating that number to estimate the snail population in the upper intertidal zone.
Math	Number and Operations in Base Ten	<p><b>Grade 3:</b> Use place value understanding and properties of operations to perform multi-digit arithmetic.</p> <p><b>Grade 4:</b> Use place value understanding and properties of operations to perform multi-digit arithmetic.</p> <p><b>Grade 5:</b> Understand the place value system. Perform operations with multi-digit whole numbers and with decimals to hundredths.</p>	
Math	Measurement and Data	<p><b>Grade 3:</b> Represent and interpret data.</p> <p><b>Grade 4:</b> Represent and interpret data.</p> <p><b>Grade 5:</b> Represent and interpret data.</p>	
ELA Anchor Standards Grades K-5	Comprehension & Collaboration	1. Prepare for and participate effectively in a range of conversations and collaborations with diverse partners, building on others' ideas and expressing their own clearly and persuasively.	Students will participate in conversations related to their observations and data collection.
	Presentation of Knowledge and Ideas	4. Present information, findings, and supporting evidence such that listeners can follow the line of reasoning and the organization, development, and style are appropriate to task, purpose, and audience.	Students in pairs or in groups of 3-4 will be responsible for presenting their observations/collections of organisms to the larger group
	Vocabulary Acquisition and Use	4. Determine or clarify the meaning of unknown and multiple-meaning words and phrases by using context clues, analyzing meaningful word parts, and consulting general and specialized reference materials, as appropriate.	Students will use content-driven vocabulary throughout the program and practice the use of root words, prefixes and suffixes to determine meaning (example: macro, micro; bivalve, univalve)