

## Standard Alignments for Field Forest Program for grades 3, 4 and 5

Standards Type	Key Standards or Code	Standard Description	Instructional Activities
NYS Science Core Curriculum	<b>Standard 1:</b> Analysis, Inquiry and Design <b>Scientific Inquiry</b>	<b>Key Idea 1:</b> To develop explanations of natural phenomena in a continuing creative process. <b>Key Idea 3:</b> The observations made while testing proposed explanations provide new insights into phenomena	The whole session is inquiry and discovery based. Students will observe and compare the diversity and types of plants in a field as compared to a forest.
	<b>Standard 4</b> <b>Living Environment</b>	<b>Key Idea 1:</b> Living things are both similar to and different from each other and nonliving things. <b>Key Idea 3:</b> Individual organisms and species change over time. <b>Key Idea 4:</b> The continuity of life is sustained through reproduction and development. <b>Key Idea 5:</b> Organisms maintain a dynamic equilibrium that sustains life. <b>Key Idea 6:</b> Plants and animals depend on each other and their physical environment. <b>Key Idea 7:</b> Human decisions and activities have had a profound impact on the physical and living environment	The Key ideas for Standard 4 are addressed throughout the program. Observations and discussions include seasonal changes, life cycles; complete and incomplete metamorphosis; nutrient cycles; a web of life game to demonstrate inter-relationships, plant and animal adaptations. Students will observe how human intervention has changed the habitat and how the plants will move back into areas disturbed by humans.
NYS Common Core	Supporting Standards	Description	Instructional Activities
Math	Measurement and Data:	<b>Grade 3.MD.4</b> Generate measurement data by measuring using rulers. <b>3. MD.5</b> Recognize area as an attribute of plane figures; understand concepts of area measurement. <b>3.MD.8</b> Solve real world and mathematical problems involving perimeters of polygons <b>Grade 4.MD.3</b> Apply the area and perimeter formulas for rectangles in real world and mathematical problems <b>Grade 5:</b> Represent and interpret data.	The transect study will quantify the plants that exist in the habitat by using square foot quadrants and a transect line measured in feet. After collecting data students use simple multiplication and division to determine the plant populations. Data collected may be used in the classroom for further interpretation.
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 will participate in a group wrap up activity where they will discuss the lessons of the day and predict the future of the habitat.
	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)