

New Paltz Central School District
Curriculum Framework

Subjects:

- ELA/Science/Social Studies/Math

Conceptual Thread:

- Structure and function of organisms' external parts.
- Interdependence of living things in the environment.

Grade: 1

Time Frame: 8 weeks (March through May)

Essential Understanding/Question

How do animals meet their basic needs?
How does the environment effect how animals survive?

Rationale

Throughout this unit of study first graders will gain a deeper understanding of the local Hudson Valley animals (birds, mammals and aquatic life) that share our environment. First graders will also create models of realistic ecosystems.

Statement of Student Experience

Through carefully scaffolded learning experiences students will:

- Research a local bird, mammal or aquatic creature
- Immerse in non-fiction literature for gathering relevant information
- Write informational texts
- Map ecosystems/habitats
- Report findings by choosing a preferred format (diorama, poster, oral presentation, etc.)
- Apply computational and measurement skills within personal research
- Collaborate with peers to create fact-based models

Statement of Learning Outcomes

Each first grade student will:

- Participate in the process of writing an All About Book (informational text) about an animal
- Create a map of an animal's habitat/ecosystem
- Prepare a poster, diorama, oral presentation or other to demonstrate knowledge of researched information
- Construct an accurate model of their selected animal, emphasizing structure, form and function
- Collaborate with peers to create a class island that reflects researched information and demonstrates the interdependence of living creatures

Critical Understandings

- All organisms have external parts. Different animals use their body parts in different ways to see, hear, grasp objects, protect themselves, move from place to place and seek, find and take in food, water and air.
- Maps, models and diagrams serve as representations of places, physical features and objects.
- Symbols represent places and can be used to locate geographic features and physical characteristics
- Living things depend on and modify their physical environments to meet basic needs
- Learning and research is an investigative process of discovery
- Researchers find diverse ways to share their discoveries with others

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Skills and Competencies

In addition to competencies related to specific disciplines; i.e., compare and contrast (social studies) optimization and systems thinking (science), students will develop and strengthen thinking skills and life skills (21st Century Skills).

21st Century Skills: (Include but are not limited to) Critical thinking, problem solving, analogous thinking, visualizing and representing, collaboration and cooperation including opportunities to assume a leadership learning role, research, innovation, problem identification, refining and adapting (including refining a task to optimize a solution or outcome), risk-taking (trial and error/learning from mistakes).

Skills and Competencies: Humanities

Discipline	Skill/Competency	Alignment: Common Core Learning Standard	Level of Understanding: Webb's Depth of Knowledge
ELA	Reading: Informational Text	<p>RI.1.1 Ask and answer questions about key details in text</p> <p>RI.1.2 Identify the main topic and retell key details of a text</p> <p>RI.1.4 Ask and answer questions to help determine or clarify the meaning of words and phrases in a text</p> <p>RI.1.5 Know and use various text features (e.g. headings, tables of contents, glossaries) to locate key facts or information in a text</p> <p>RI.1.6 Distinguish between information provided by pictures or other illustrations and information provided by the words in a text</p>	<p>Recall</p> <p>Understanding</p> <p>Application</p> <p>Analysis</p> <p>Synthesis</p>

		RI.1.10 With prompting and support, read informational texts appropriately complex for grade 1	
ELA	<p>Reading: Foundational Skills</p> <ul style="list-style-type: none"> • Phonics and Word Recognition • Fluency 	<p>RF.1.3 Know and apply grade-level phonics and word analysis skills in decoding words</p> <p>RF.1.4 Read with sufficient accuracy and fluency to support comprehension</p>	
ELA	Writing	<p>W.1.2 Write informative/explanatory texts in which they name a topic, supply some facts about the topic, and provide some sense of closure</p> <p>W.1.5 With guidance and support from adults, focus on a topic, respond to questions and suggestions from peers, and add details to strengthen writing as needed</p> <p>W.1.6 With guidance and support from adults, use a variety of digital tools to produce and publish writing, including in collaboration with peers</p> <p>W.1.7 Participate in shared research and writing projects</p> <p>W.1.8 With guidance and support from adults, recall information from experiences or gather information from</p>	<p>Recall</p> <p>Understanding</p> <p>Application</p> <p>Analysis</p> <p>Synthesis</p>

		provided sources to answer a question	
ELA	Speaking and Listening	<p>SL.1.1 – SL.1.6</p> <ul style="list-style-type: none"> • Participate in collaborative conversations with diverse partners about grade 1 topics and texts with peers and adults in small and larger groups • Ask and answer questions about key details in a text read aloud or information presented orally or through other media • Ask and answer questions about what a speaker says in order to gather additional information or clarify something that is not understood • Describe people, places, things, and events with relevant details, expressing ideas and feelings clearly • Add drawings or other visual displays to descriptions when appropriate to clarify ideas, 	

		<p>thoughts, and feelings</p> <ul style="list-style-type: none"> • Produce complete sentences when appropriate to task and situation 	
Skills and Competencies: STEAM (Science, Technology, Engineering, Art, Mathematics)			
Discipline	Skill/Competency	Alignment: Common Core Learning Standard	Level of Understanding: Webb's Depth of Knowledge
Science	Structure, Function, and Information Processing	<p>Next Generation Science Standard:</p> <p>LS1.A: Structure and Function</p> <ul style="list-style-type: none"> • All organisms have external parts. Different animals use their body parts in different ways to see, hear, grasp objects, move from place to place, and seek, find, and take in food, water and air. <p>LS1.B Growth and Development of Organisms</p> <ul style="list-style-type: none"> • Adult plants and animals can have young. In many kinds of animals, parents and the offspring themselves engage in behaviors that help the offspring to survive. 	<p>Recall</p> <p>Understanding</p> <p>Application</p> <p>Analysis</p> <p>Synthesis</p>

		<p>LS1.D Information Processing</p> <ul style="list-style-type: none"> Animals have body parts that capture and convey different kinds of information needed for growth and survival. Animals respond to these inputs with behaviors that help them survive. <p>LS3.A Inheritance of Traits</p> <ul style="list-style-type: none"> Young animals are very much, but not exactly, like their parents. <p>LS3.B Variation of Traits</p> <ul style="list-style-type: none"> Individuals of the same kind of plant or animal are recognizable as similar but can also vary in many ways. 	
Math	Operation and Algebraic Thinking	<p>1.OA.A.1, 2 Represent and solve problems involving addition and subtraction</p> <p>1.OA.B.3, 4 Understand and apply properties of operations and the relationship between addition and subtraction</p> <p>1.OA.C.5, 6 Add and subtract within 20</p> <p>1.OA.D.7, 8 Work with addition and subtraction equations</p>	<p>Recall Understanding Application Analysis Synthesis</p>

Math	Measurement and Data	1.MD.A.1, 2 Measure lengths indirectly and iterating length units	Recall Understanding Application Analysis Synthesis
Social Studies	Places and Regions <ul style="list-style-type: none"> • Places in my community and local region 	<ul style="list-style-type: none"> • Places can be located on maps and on a globe • Maps and diagrams serve as representations of places, physical features, and objects • Cardinal directions can be used to locate places and physical features • Symbols represent places and can be used to locate geographic features and physical characteristics • Living things depend on and modify their physical environments to meet basic needs 	