

Living, Learning Lab Curriculum Standards by Program

The Living, Learning Lab was piloted in 2012 and was built around 3rd grade curriculum. Throughout the years we've worked to continually adapt our lessons to align with the expectation and outcomes of modern grade level standards. Each of the 5 modules offered in the lab correlate with both Next Generation Science Standards and Common Core State Standards.



Standard		Description
Animal Journaling		
NGSS	SEPs	Analyzing and Interpreting Data Engaging in Argument from Evidence Obtaining, Evaluating, and Communicating Information
	DCIs	LS2.D Group behavior and social interactions
	CCs	Cause and Effect
Common Core	Speaking and Language	SL.3.1 Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 3 topics and texts, building on other's ideas and express their own clearly. SL.3.4 Report on a topic or text, tell a story, or recount an experience with appropriate facts and relevant, descriptive details, speaking clearly at an understandable pace.
	Writing	W.3.2 Write informative/explanatory texts to examine a topic or convey ideas and information clearly W.3.7 Conduct short research projects that build knowledge about a topic.
	Reading Standards for Informational Texts	RI.3.1 Ask and answer questions to demonstrate understanding of a text, referring explicitly to the text as the basis for answers

Metrics on the Menu

NGSS	SEPs	<p>Planning and Carrying Out Investigations</p> <p>Analyzing and Interpreting Data</p> <p>Engaging in Argument from Evidence</p> <p>Obtaining, Evaluating, and Communication Information</p>
	DCIs	<p>LS1.A Structure and Function</p> <p>LS2.A Interdependent Relationships in Ecosystems</p> <p>LS2.B Cycles of Matter and Energy Transfer in Ecosystems</p> <p>LS4.C Adaptation</p>
	CCs	<p>Patterns</p> <p>Cause and Effect</p> <p>Scales, Proportion, and Quantity</p> <p>Energy and Matter: Flows, Cycles, and Conservation</p> <p>Structure and Function</p>
Common Core	Numbers and Operations - Fractions	<p>3.NF.A.1 Understand a fraction $1/b$ as the quantity formed by 1 part when a whole is partitioned into b equal parts; understand a fraction a/b as the quantity formed by a parts of size $1/b$</p> <p>3.NF.A.3 Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size</p> <p>3.NF.A.3.A Understand two fractions as equivalent (equal) if they are the same size, or the same point on a number line</p> <p>3.NF.A.3.B Recognize and generate simple equivalent fractions, e.g. $1/2 = 2/4$, $4/6 = 2/3$. Explain why the fractions are equivalent, e.g. by using a visual fraction model</p>
	Measurement and Data	<p>3.MD.A.2 Measure and estimate liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (l). Add, subtract, multiply, or divide to solve one-step word problems involving masses or volumes that are given in the same units, e.g., by using drawings (such as a beaker with a measurement scale) to represent the problem.</p> <p>3.MD.B.3 Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories. Solve one- and two-step “how many more” and “how many less” problems using information presented in scaled bar graphs. For example, draw a bar graph in which each square in the bar graph might represent 5 pets.</p>
	Speaking and Language	<p>SL.3.1 Engage in a range of collaborative discussions with diverse partners on grade 3 topics and texts. Build on other’s ideas and express their own clearly.</p>

Animal Adaptations

NGSS	SEPs	Practicing and Carrying out Investigations Analyzing and Interpreting Data Engaging in Argument from Evidence Obtaining, Evaluating, and Communicating Information
	DCIs	LS3.A Inheritance of Traits – Inherited or Acquired (derived from interactions from and with environment) LS3.B Variation of Traits LS4.C Adaptation: For any particular environment, some kinds of organisms survive well, some less, and some not at all. LS4.D Biodiversity: Change in habitats effect organisms living there
	CCs	Structure and Function
Common Core	Writing	W.3.7 Conduct short research projects that build knowledge about a topic.

Parasites, Pathogens, & Pills

NGSS	SEPs	Analyzing and Interpreting Data Engaging in Argument from Evidence Obtaining, Evaluating, and Communicating, Information
	DCIs	LS1.B Growth and Development of Organisms
	CCs	Patterns Cause and Effect
Common Core	Speaking and Language	SL.3.1 Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacherled) with diverse partners on grade 3 topics and texts, building on other's ideas and express their own clearly. SL.3.3 Ask and answer questions about information from a speaker, offering appropriate elaboration and detail.
	Writing	W.3.7 Conduct short research projects that build knowledge about a topic.

Enrichment Engineers

NGSS	SEPs	Developing and Using Models Practicing and Carrying out Investigations Analyzing and Interpreting Data Constructing Explanations and Designing Solutions Obtaining, Evaluating, and Communicating Information
	DCIs	3-5-ETS1-1 Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost. 3-5-ETS1-2 Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem. 3-5-ETS1-3 Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved ETS1.A Defining and Delimiting Engineering Problems ETS1.C Optimizing the Design Solution
	CCs	Systems and System Models
	PEs	3-5-ETS1-1 Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost. 3-5-ETS1-2 Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem. 3-5-ETS1-3 Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved
Common Core	Speaking and Language	SL.3.3 Ask and answer questions about information from a speaker, offering appropriate elaboration and detail. (3-PS2-3)
	Writing	W.3.7 Conduct short research projects that build knowledge about a topic.