Grade 2

Unit 3: Environments for Living Things

New Jersey Student Learning Standards

Established 2016-2017

Revised 2018-2019

Revised 2019-2020

Revised 2020-2021

Revised 2022-2023

Trimester		Unit Title	Recommended Instructional Days		
2		Environments for Living Things		22-26 Days	
NJSLS - Science: TItle		NJSLS - Science: Performance Expectations			
Interdependent Relationships in Ecosystems 2-LS2-1. P if plants no 2-LS2-2. D function o plants.		an and conduct an investigation to determine ed sunlight and water to grow. evelop a simple model that mimics the fan animal in dispersing seeds or pollinating ake observations of plants and animals to	Recommended Activities, Investigations, Interdisciplinary Connections, and/or Stude Experiences to Explore NJSLS-S within Un		
FOUNDATION Disciplinary: Core Idea	compare the	compare the diversity of life in different habitats. FOUNDATION Disciplinary: Statement			
LS2.A: Interdependent Relationships in Ecosystems LS4.D: Biodiversity and Humans ETS1.B: Developing Possible Solutions	Plants dep their seeds There are a area, and t water. (2-L Designs ca physical m communic	end on water and light to grow. (2-LS2-1); end on animals for pollination or to move around. (2-LS2-2) many different kinds of living things in any hey exist in different places on land and in S4-1) n be conveyed through sketches, drawings, or odels. These representations are useful in ating ideas for a problem's solutions to other condary to 2-LS2-2)	What plants an What plants an What do plants	need? depend on animals? d animals live in water habitats? d animals live in land habitats? and animals need to live and grow? ct and compare data? can I observe?	
FOUNDATION Science and Engineering Practices: Core Idea	.,	FOUNDATION Science and Engineering Practices: Statement	and grow. Develop models animals.	s to show how plants depend on	
Developing and using models		odeling in K-2 builds on prior experiences and ogresses to include using and developing	patterns.	nments to identify observable	

put-together, take-apart, and compare

Content Area: Science (NJSLS-S) Grades K - 12 Grade: Second

models (i.e., diagram, drawing, physical replica, Observe plants and animals to compare diversity of diorama, dramatization, or storyboard) that life in water and land habitats. represent concrete events or design solutions. Develop a simple model based on Suggested Activities: evidence to represent a proposed object Unit Phenomenon or tool. (2-LS2-2) • Unit Project: Explore Habitats (Biodiversity and Humans, Planning and Planning and carrying out investigations to Carrying out Investigations); answer questions or test solutions to problems Lesson 1: Explore What a Plant Needs in K-2 builds on prior experiences and (Interdependent Relationships in progresses to simple investigations, based on Ecosystems); Lesson 2: Engineer It- Plan and Build a fair tests, which provide data to support explanations or design solutions Model Tool (Developing and Using Models, plan and conduct an investigation Developing Possible Solutions); collaboratively to produce data to serve • Lesson 3: Make Model Habitats as the basis for evidence to answer a (Biodiversity and Humans); questions (2-LS2-1) • Lesson 4: Make a Habitat Exhibit; City Planning and carrying out Make observations (firsthand or from Habitats media) to collect data which can be investigations *Collaboration opportunities in this unit: Build on Prior Knowledge (pp. 111, 112, 125, 126, 141, 157, used to make comparisons (2-LS-1) Connections to Nature of Science: 164, 167), Think, Pair, Share (p.119), Cultivating New Questions (pp. 121, 137, 153, 175), Whole class Scientists look for patterns and order when making observations about the world (2-LS4-1) (pp. 136, 173), Pairs (pp. 148, 152), Jigsaw (p. 142) **Interdisciplinary Connections: Content: NJSLS Connections to Math** MP.2: Reason abstractly and quantitatively; MP.4: Model with mathematics: 2.OA.C.4 Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends. MP.5: Use appropriate tools strategically; 2.MD.D.10: Draw a picture graph and a bar graph (with single unit scale) to represent a data set with up to four categories. Solve simple

Connections to Nature of Science • Scientific Knowledge is based on empirical evidence FOUNDATION Crosscutting Concepts: Core Idea	FOUNDATION Crosscutting Concej Statement		problems using information presented in a bar graph. Connections to Language Arts W.2.7 Participate in shared research and writing projects W.2.8: Recall information from experiences or gather information from provided sources to answer a question. SL.2.5 Create audio recordings of stories or poems; add drawings or other visual displays to stories or recounts of experiences when appropriate		
Cause and EffectStructure and function	 Events have causes that generaterns (2-LS2-1) The shape and stability of struand designed objects are related (2-LS2-2) 	uctures of natural ted to their functions	to clarify ideas, thoughts, and feelings.		
Social and Emotional Learning:	Social and Emotional Learning:				
Competencies	Sub-Competencies	s			
 Responsible Decision-Making Relationship skills Self-management Social Awareness Self Awareness 	 Develop, implement, and more problem-solving and critical to trilize positive communication interact effectively with other. Recognize the skills needed to the skills neede	thinking skills on and social skills to ss o establish and			
	 achieve personal and education Demonstrate an understanding mutual respect when viewpoing the personant of the perso	g of the need for nts differ the expectations for y of ways self-confidence in			
Assessments (To show evidence of meeting the star	 Demonstrate an understandin mutual respect when viewpoi Demonstrate an awareness of social interactions in a variety Recognize the importance of handling daily tasks and chall Formative)	g of the need for nts differ the expectations for y of ways self-confidence in lenges	Assessments (Summative) of meeting the standard/s, students will successfully		

Formative Assessments:		Benchmarks: Performance- Based Assessment (pp 178, 179) End of Module Test/End of the Year Test District Assessments Alternative- Performance Assessment Unit Project You Solve It (Digital Only) Summative Assessments: Lesson Quiz Interactive Worktext (Unit 3 Review pp 180-182) Self-Check Unit Test		
		ent Access to Content: ing Resources/Materials		
Core	Alternate	ELL	Gifted & Talented	
Resources	Core Resources IEP/504/At-Risk/ESL	Core Resources	Core Resources	
 Workbook Leveled Readers Hands-on Activities Interactive Worktext 	 Utilize a multi-sensory (VAKT) approach during instruction, provide alternate presentations of skills by varying the method (repetition, simple explanations, additional examples, modeling, etc.), modify test content and/or format, allow students to retake Deliver instruction utilizing varied learning styles including audio, visual, and tactile/kinesthetic, 	 Extend time requirements, preferred seating, positive reinforcement, check often for understanding/review, oral/visual directions/prompts when necessary, supplemental materials including use of an online bilingual dictionary, and modified assessment and/or rubric. 	 Create an enhanced set of introductory activities, integrate active teaching/learning opportunities, incorporate authentic components, propose interest-based extension activities, and connect students to related talent development opportunities. 	

	provide individual			
	instruction as needed,			
	modify assessments			
	and/or rubrics, repeat			
	instructions as needed.			

Supplemental Resources

Technology:

- HMH Co. Interactive Site
- You Solve It Simulations

Other:

- Career Education: Horticulturist
- Spot Light on Scientist: George Washington Carver, Marie Clark Taylor, Edmond Albius

Differentiated Student Access to Content: Recommended *Strategies & Techniques*

	Recommended Strategies & Techniques								
Core Resources	Alternate Core Resources IEP/504/At-Risk/ESL	ELL Core Resources	Gifted & Talented Core						
 Large group instruction Small group instruction Think Pair Share Cooperative group work Multimedia presentations K-W-L Manipulatives Leveled Readers 	 Utilize a multi-sensory (VAKT) approach during instruction, provide alternate presentations of skills by varying the method (repetition, simple explanations, additional examples, modeling, etc.), modify test content and/or format, allow students to retake Deliver instruction utilizing varied learning 	Extend time requirements, preferred seating, positive reinforcement, check often for understanding/review, oral/visual directions/prompts when necessary, supplemental materials including use of an online bilingual dictionary, and modified assessment and/or rubric.	 Create an enhanced set of introductory activities, integrate active teaching/learning opportunities, incorporate authentic components, propose interest-based extension activities, and connect students to related talent development opportunities. 						

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visual, and	
tactile/kinesthetic,	
provide individual	
instruction as needed,	
modify assessments	
and/or rubrics, repeat	
instructions as needed.	

Dev. Date:

2022-2023

	Disciplinary Concept: Career Awareness & Planning, Creativity & Innovation, Critical Thinking & Problem Solving, Technology Literacy				
NJSLS CAREER READINESS, LIFE LITERACIES & KEY SKILLS	Core Ideas:	 Different types of jobs require different knowledge and skills. Brainstorming can create new, innovative ideas. Critical thinkers must first identify a problem then develop a plan to address it to effectively solve the problem. Collaboration can simplify the work an individual has to do and sometimes produce a better product. 			
	Performance Expectation/s:	 9.1.2.CAP.1: Make a list of different types of jobs and describe the skills associated with each job 9.4.2.CI.1: Demonstrate openness to new ideas and perspectives (e.g., 1.1.2.CR1a, 2.1.2.EH.1, 6.1.2.CivicsCM.2). 9.4.2.CI.2: Demonstrate originality and inventiveness in work (e.g., 1.3A.2CR1a). 9.4.2.CT.1: Gather information about an issue, such as climate change, and collaboratively brainstorm ways to solve the problem (e.g., K-2-ETS1-1, 6.3.2.GeoGI.2). 9.4.2.CT.2: Identify possible approaches and resources to execute a plan (e.g., 1.2.2.CR1b, 8.2.2.ED.3). 9.4.2.CT.3: Use a variety of types of thinking to solve problems (e.g., inductive, deductive). 9.4.2.TL.7: Describe the benefits of collaborating with others to complete digital tasks or develop digital artifacts (e.g., W.2.6., 8.2.2.ED.2). 			

Dev. Date: 2022-2023

Career Readiness, Life Literacies & Key Skill Practices				
 Demonstrate creativity and innovation. Utilize critical thinking to make sense of problems and persevere in solving them. Use technology to enhance productivity, increase collaboration and communicate effectively. Work productively in teams while using cultural/global competence. 				

	New Jersey Legislative Statutes and Administrative Code (place an "X" before each law/statute if/when present within the curriculum map)								
х	Amistad Law: N.J.S.A. 18A 52:16A-88		Holocaust Law: <i>N.J.S.A. 18A:35-28</i>		LGBT and Disabilities Law: N.J.S.A. 18A:35-4.35	I	Diversity & Inclusion: N.J.S.A. 18A:35-4.36a	X	Standards in Action: Climate Change