Grade 2

Unit 4: Earth's Surface

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
3 Earth's Surface			15-25 Days	
NJSLS - Science: TItle		NJSLS - Science: Performance Expectations		
2-ESSE-2 Develop a model to represent the shat and kinds of land and bodies of water in an area. 2-ESS2-3 Obtain information to identify where is found on Earth and that it can be solid or liquid. SEP Obtaining, Evaluating, and Communicating Information SEP Developing and Using Models DCI ESS2.B Plate Tectonics and Large-Scale Sylnteractions DCI Ess2.C The Roles of Water in Earth's Surfa Processes		Obtain information to identify where water Earth and that it can be solid or liquid. Ining, Evaluating, and Communicating an oping and Using Models B Plate Tectonics and Large-Scale System is	Recommended Activities, Investigations, Interdisciplinary Connections, and/or Student Experiences to Explore NJSLS-S within Unit	
FOUNDATION Disciplinary: Core Idea		FOUNDATION Disciplinary: Statement		
ESS2.A: Earth Materials and Systems	(2-ESS2-1)		 How can we 	ter found on Earth? map land and water?
ESS2.B: Plate Tectonics and LargeScale System Interactions	Maps show where things are located. One can map the shapes and kinds of land and water in any area. (2-ESS2-2) Water is found in the ocean, rivers, lakes, and ponds. Water exists as solid ice and in liquid form. (2-ESS2-3)		ocean not free Investigate an	Explore Ocean Water Why does an eze completely?

ESS2.C: The Roles of Water in Earth's		Lesson 2 Hands-On Activity: Engineer it- Make a
Surface Processes	Because there is always more than one possible	Мар
	solution to a problem, it is useful to compare and test	
	designs. (secondary to 2-ESS2-1)	*Collaboration opportunities in this unit: Build on Prior
		Knowledge (pp.187, 203), Cultivating New Questions (pp.
		199, 213), Small Groups (p. 207), Jigsaw (p. 190)
ETS1.C: Optimizing the Design		
Solution		Materials and Equipment: HMH Equipment Kits, Online
		Simulations, Leveled Readers, Workbook, Online
		Simulations, Evidence Notebook, Equipment Kits, Leveled
	EQUIND ATION	Readers
FOUNDATION	FOUNDATION Science and Engineering	Interdisciplinary Connections: Content: NJSLS
Science and Engineering Practices:	Practices:	Interdisciplinary Connections. Content. Nosels
Core Idea	Statement	Connections to Math:
Developing and Using Models	Modeling in K–2 builds on prior experiences and	MP.2: Reason abstractly and quantitatively;
	progresses to include using and developing models	MP.4: Model with mathematics;
	(i.e., diagram, drawing, physical replica, diorama,	2.NBT.A.4 Compare two three-digit numbers based on the
	dramatization, or storyboard) that represent concrete	meanings of the hundreds, tens, and ones digits, using
	events or design solutions. Develop a model to	>,= and < symbols to record the results of comparisons.
	represent patterns in the natural world. (2- ESS2-2)	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
	Constructing explanations and designing solutions in	categories. Solve simple put-together, take-apart, and
	K–2 builds on prior experiences and progresses to the	compare problems using information presented in a bar
	use of evidence and ideas in constructing	graph.
Constructing explanations and	evidence-based accounts of natural phenomena and	2.NBT.A.3 Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.
designing solutions	designing solutions. Compare multiple solutions to a problem. (2-ESS2-1)	2.MD.B.5 Use addition and subtraction within 100 to solve
	problem. (2-ESS2-1)	word problems involving lengths that are given in the
		same units, e.g., by using drawings (such as drawings of
		rulers) and equations with a symbol for the unknown
	Obtaining, evaluating, and communicating	number to represent the problem.
	information in K–2 builds on prior experiences and	assisted to represent the problem.
	uses observations and texts to communicate new	Connections to Language Arts:
	information. Obtain information using various texts,	
	text features (e.g., headings, tables of contents,	
	glossaries, electronic menus, icons), and other media	

Obtaining, Evaluating, and Communicating Information	that will be useful in answering a scientific question. (2- ESS2-3)	• RI.2.3 Describe the connection between a series of historical events, scientific ideas or concepts, or steps in technical procedures in a text. (2-ESS2-1)
FOUNDATION	FOUNDATION	• RI.2.9 Compare and contrast the most important points
Crosscutting Concepts:	Crosscutting Concepts:	presented by two texts on the same topic. (2-ESS2-1) • W.2.6 With guidance and support from adults, use a variety
Core Idea	Statement	of digital tools to produce and publish writing,
Patterns Stability and Change	Patterns in the natural world can be observed. (2-ESS2-2), (2-ESS2-3) Things may change slowly or rapidly. (2-ESS2-1)	 including in collaboration with peers. (2-ESS2-3) W.2.8 Recall information from experiences or gather information from provided sources to answer a question. (2-ESS2-3) SL.2.5 Create audio recordings of stories or poems; add drawings or other visual displays to stories or recounts of experiences when appropriate to clarify ideas, thoughts, and feelings. (2-ESS2-2)
Connections to Engineering, Technology, and Applications of Science	Timigo may change slowly of rapidly. (2 1552 1)	thoughts, and rectings. (2-L552-2)
Influence of Engineering, Technology, and Science on Society and the Natural World	Developing and using technology has impacts on the natural world. (2-ESS2-1)	
Connections to Nature of Science	Scientists study the natural and material world. (2-ESS2-1)	
Science Addresses Questions About the Natural and Material World		
Social and Emotional Learning:	Social and Emotional Learning:	1
Competencies	Sub-Competencies	
Responsible Decision-Making		1
Relationship Skills	Develop, implement, and model effective problem-solving and critical thinking skills	

Self-ManagementSocial AwarenessSelf Awareness	 Utilize positive communication and social skills to interact effectively with others Recognize the skills needed to establish and and achieve personal and educational goals Demonstrate an understanding of the need for mutual respect when viewpoints differ. Demonstrate an awareness of the expectations for social interactions in a variety of settings 			
	ts (Formative)			ts (Summative)
·	standard/s, students will successfully	To show evid		standard/s, students will successfully
Formative Assessments:	ge within:	Benchmarks:	COI	mplete:
 Interactive Worktext Apply What You Know Lesson Check Self Check 	 Performance-Based Assessment (End of Module Test/ End of Year Test) District Assessments Performance Assessment Unit Project You Solve It (Digital Only) Summative Assessments: Interactive Worktext, Performance Task pp 216-217 Interactive Worktext Unit 4 Review pp 218-220 			
	Differentiated Stud Teaching and Learni			
Core	Alternate		LL	Gifted & Talented
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	preferred reinforcer for unders oral/visua directions	me requirements, seating, positive ment, check often standing/review, il s/prompts when , supplemental	Create an enhanced set of introductory activities, integrate active teaching/learning opportunities, incorporate authentic components, propose interest-based extension activities, and

examples, modeling, etc.), modify test content and/or format, allow students to retake	materials including use of an online bilingual dictionary, and modified assessment and/or rubric.	connect students to related talent development opportunities.				
Deliver instruction utilizing varied learning styles including audio, visual, and tactile/kinesthetic, 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: Mapmakers

Differentiated Student Access to Content: Recommended Strategies & Techniques

recommended strategies to recommends							
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 	 utilize a multi-sensory (VAKT) approach during instruction provide alternate presentations of skills by varying the method (repetition, simple explanations, additional examples, modeling, etc.) 	 extend time requirements preferred seating positive reinforcement check often for understanding/review oral/visual directions/prompts when necessary 	 Create an enhanced set of introductory activities integrate active teaching/learning opportunities incorporate authentic components propose interest-based extension activities 				

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K-W-LManipulativesLeveled Readers	 modify test content and/or format allow students to retake tests for additional credit 	 supplemental materials including use of online bilingual dictionary modified assessment and/or 	connect students to related talent development opportunities. Extended research project:
 MTSS: Model how to identify vocabulary terms within text. Discuss how to locate definition within the text, noting that some definitions will need to be inferred based on images as well as text. 	 provide additional times and preferential seating as needed review, restate and repeat directions provide study guides break assignments into segments of shorter tasks. 	modified assessment and/or rubric.	Extended research project: Students can research a local body of water. They can share their findings by drawing a map of that body of water.

	Disciplinary Concept: Career Awareness & Planning, Creativity & Innovation, Critical Thinking & P 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 t 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). 			

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	 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). 			
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 effective. 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)								
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: <i>N.J.S.A.</i> 18A:35-4.35		Diversity & Inclusion: N.J.S.A. 18A:35-4.36a	х	Standards in Action: Climate Change