

Grade 2

Unit 3: Earth's Surface

New Jersey Student Learning Standards

Established 2016-2017

Revised 2018-2019

Revised 2019-2020

Revised 2020-2021

Revised 2022-2023

Revised 2023-2024

Revised 2024-2025

Marking Period	Unit Title	Recommended Instructional Days
Trimester 2	Earth's Surface	20 - 30 days
NJSLS - Science: Title	NJSLS - Science: Performance Expectations	Recommended Activities, Investigations, Interdisciplinary Connections, and/or Student Experiences to Explore NJSLS-S within Unit
Earth's Systems	<ul style="list-style-type: none"> ● ESS2-2 Develop a model to represent the shapes and kinds of land and bodies of water in an area ● ESS2-3 Obtain information to identify where water is found on Earth and that it can be solid or liquid 	
FOUNDATION Disciplinary: Core Idea	FOUNDATION Disciplinary: Statement	<p>Essential Question/s:</p> <ul style="list-style-type: none"> ● How can I describe Earth's Surface? ● How does a map represent land and water on Earth? <p>Activity Description:</p> <ul style="list-style-type: none"> ● Explore Earth's Surface - including landforms and bodies of water ● Understand the purpose of maps - to represent land and water on Earth <p>Interdisciplinary Connections: Connections to Math:</p> <ul style="list-style-type: none"> ● 2.NBT.A.3 Read and write numbers to 1000 using base ten numerals, number names, and expanded form. ● 2.NBT.A.4 Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using >, =, and < symbols to record the results of comparisons. ● 2.MD.B.5 Use addition and subtraction within 100 to solve word problems involving lengths that are given in the same units, e.g., by using drawings (such as
<ul style="list-style-type: none"> ● ESS2.C The Roles of Water in Earth's Surface Processes ● ESS2.B Plate Tectonics and Large-Scale System Interactions 	<ul style="list-style-type: none"> ● Water is found in the ocean, rivers, lakes, and ponds. Water exists as solid ice and in liquid form. ● Maps show where things are located. One can map the shapes and kinds of land and water in any area. 	
FOUNDATION Science and Engineering Practices: Core Idea	FOUNDATION Science and Engineering Practices: Statement	
<ul style="list-style-type: none"> ● Developing and Using Models ● Obtaining, Evaluating, and Communicating Information 	<ul style="list-style-type: none"> ● Develop a model to represent patterns in the natural world. ● Obtain information using various texts, text features, and other media that will be useful in answering a scientific question. 	

FOUNDATION Crosscutting Concepts: <i>Core Idea</i>	FOUNDATION Crosscutting Concepts: <i>Statement</i>	
<ul style="list-style-type: none"> ● Patterns ● Cause and Effect 	<ul style="list-style-type: none"> ● Patterns in the natural world can be observed. ● Events have causes that generate observable patterns 	<p>drawings of rulers) and equations with a symbol for the unknown number to represent the problem.</p> <ul style="list-style-type: none"> ● 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 put-together, take-apart, and compare problems using information presented in a bar graph. ● 2.G.A.1 Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces. Identify triangles, quadrilaterals, pentagons, hexagons, and cubes. ● 2.G.A.2 Partition a rectangle into rows and columns of same-size squares and count to find the total number of them. ● MP2 Reason abstractly and quantitatively. ● MP4 Model with mathematics.
Social and Emotional Learning: <i>Competencies</i>	Social and Emotional Learning: <i>Sub-Competencies</i>	
<ul style="list-style-type: none"> ● Responsible Decision-Making ● Relationship Skills ● Self-Management ● Social Awareness ● Self Awareness 	<ul style="list-style-type: none"> ● Develop, implement, and model effective problem-solving and critical thinking skills ● 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 ways. ● Recognize the importance of self-confidence in handling daily tasks and challenges. 	<p>Connections to ELA:</p> <ul style="list-style-type: none"> ● RI.2.1 Ask and answer such questions as who, what, where, when, why, and how to demonstrate understanding of key details in a text. ● W.2.2 Write informative/explanatory texts in which they introduce a topic, use facts and definitions to develop points, and provide a concluding statement or section. ● W.2.7 Participate in shared research and writing projects (e.g., read a number of books on a single topic to produce a report; record science observations). ● W.2.8 Recall information from experiences or gather information from provided sources to answer a question. ● SL.2.2 Recount or describe key ideas or details from a text read aloud or information presented orally or through other media

Assessments (Formative) <i>To show evidence of meeting the standard/s, students will successfully engage within:</i>		Assessments (Summative) <i>To show evidence of meeting the standard/s, students will successfully complete:</i>	
Formative Assessments: <ul style="list-style-type: none"> Lesson Check 		Benchmarks/Summative Assessments: <ul style="list-style-type: none"> Unit Test Performance Based Assessment 	
Differentiated Student Access to Content: Teaching and Learning Resources/Materials			
Core Resources	Alternate Core Resources <i>IEP/504/At-Risk/ESL</i>	ELL Core Resources	Gifted & Talented Core Resources
<ul style="list-style-type: none"> Workbook Leveled Readers Hands-on Activities Interactive Worktext 	<ul style="list-style-type: none"> 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, provide individual instruction as needed, modify assessments and/or rubrics, repeat instructions as needed. 	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> 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.

Supplemental Resources

Technology:

- *Mapping Water - collect and use information about various types of freshwater and saltwater bodies to recognize patterns in bodies of water found on Earth.*
- *Explore Ocean Landforms - research landforms that can be found on the ocean floor and then make models to show what they found.*
- *Map an Island - develop a model to show where land and water are located and to represent patterns in the natural world*

Other:

- **Math** - *Use Symbols; Use Shapes; Display Data; Read Numbers*
- **ELA** - *Recall Information; Write Informative Text; Recount Ideas; Participate in a Research and Writing Project; Write for Different Purposes; Ask and Answer Questions; Gather Information*
- **Social Studies**
 - **People in Science & Engineering:** *Rafael L. Bras, Kenneth Ridgway*
 - **Careers in Science & Engineering:** *Mapmakers*

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

Core Resources	Alternate Core Resources <i>IEP/504/At-Risk/ESL</i>	ELL Core Resources	Gifted & Talented Core
<ul style="list-style-type: none"> ● Large group instruction ● Small group instruction ● Think Pair Share ● Cooperative group work ● Multimedia presentations ● K-W-L ● Manipulatives ● Leveled Readers 	<ul style="list-style-type: none"> ● 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, provide individual instruction as needed, modify assessments and/or rubrics, repeat instructions as needed. 	<ul style="list-style-type: none"> ● 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. 	<ul style="list-style-type: none"> ● 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.

NJSLS CAREER READINESS, LIFE LITERACIES & KEY SKILLS	Disciplinary Concept: Creativity & Innovation/Critical Thinking & Problem Solving / Technology Literacy	
	Core Ideas:	<ul style="list-style-type: none"> 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:	<ul style="list-style-type: none"> 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).
	Career Readiness, Life Literacies & Key Skill Practices	
	<ul style="list-style-type: none"> 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)

	Amistad Law: <i>N.J.S.A. 18A 52:16A-88</i>		Holocaust Law: <i>N.J.S.A. 18A:35-28</i>		LGBT and Disabilities Law: <i>N.J.S.A. 18A:35-4.35</i>	x	Diversity & Inclusion: <i>N.J.S.A. 18A:35-4.36a</i>	x	Standards in Action: <i>Climate Change</i>
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