Grade 3

Unit 3: Motion

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		Un	it 3: Motion	30 Days	
NJSLS - Science: <i>TItle</i>		JSLS - Science: rmance Expectations			
Physical Science	3-PS2-1 3-PS2-2			ections, and/or Student	
FOUNDATION Disciplinary: <i>Core Idea</i>	1	FOUNDATION Disciplinary: Statement	Experiences to Explore NJSLS-S within Unit		
• Forces and Motion	one particu	that each force acts on lar object and has both d a direction.	Essential Question/s:What is motion?		
FOUNDATION Science and Engineering Practices: <i>Core Idea</i>	FOUNDATION Science and Engineering Practices: Statement		 What are some patterns in mo <u>Activity Description:</u> "Motion Detectives"- Unit Page 		
 Planning and Carrying Out Investigations Scientific Knowledge is Based on Empirical Evidence Engaging in Argument from Evidence Obtaining, Evaluating, and Communicating Information Asking Questions and Defining Problems 	and conduc	mple design problem, plan t an investigation, and d compare multiple	 2) "Patterns of Motion" - You S Problem: Virtual Lab TECH 		

FOUNDATION Crosscutting Concepts: <i>Core Idea</i>	FOUNDATION Crosscutting Concepts: Statement	 Take It Further: Discover More - People in Engineering (SE & TE) Interdisciplinary Connections - English Language Arts: W.3.2- Write informative/explanatory texts to examine a topic and convey ideas and information clearly. W.3.7- Conduct short research projects that build knowledge about a topic W.3.8 - Recall information from experiences RI.3.1 - Ask and answer questions to demonstrate understanding of a text SL.3.3- Ask and answer questions about information from a speaker. Interdisciplinary Connections - Mathematics: MP.2- Reason abstractly and quantitatively MP.5- Use appropriate tools strategically. 3.NF.A.3- Explain equivalence of fractions in special cases, and compare 			
 Patterns Influence of Engineering, Technology, and Science on Society and the Natural World Science is a Human Endeavor Cause and Effect 	Use patterns of change to make predictions and gain a better understanding of cause and effect relationships. Gain knowledge of relevant scientific concepts as science affects everyday life and use this knowledge to create and improve technology.				
Social and Emotional Learning: <i>Competencies</i>	Social and Emotional Learning: Sub-Competencies				
 Self-Awareness Self-Management Social Awareness Responsible Decision-Making Relationship Skills 	 Recognize the importance of self-confidence in handling daily tasks and challenges Recognize the skills needed to establish and achieve personal and educational goals Demonstrate an 	 fractions by reasoning about their size. 3.OA.D.8- Solve problems involving the four operations, and identify and explain patterns in arithmetic. 3.MD.A.1- Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects. Science Dimensions/Go Math Correlations			
	 Demonstrate an understanding of the need for mutual respect when viewpoints differ Develop, implement, and model effective problem-solving and critical thinking skills Utilize positive 	HMH Science Dimensions Math Content	HMH Science Dimensions Pages	Go Math Aligned Lessons	
		Lesson 1: Model Addition, Subtraction, & Multiplication	Pages 144-145	Lessons 1.12, 3.4, 4.10	
	communication and social skills to interact effectively with others	Lesson 2: Time (To the minute; intervals)	Pages 165, 172	Lessons 10.1, 10.3, 10.4, 10.5	

To show evidence of meeting the	ts (Formative) standard/s, students will successfully ge within:	Assessments (Summative) To show evidence of meeting the standard/s, students will successfully complete:				
• Apply what you know; Less	on check; Self check; Evidence notebooks	 Summative Assessments: End of lesson quizzes; End of unit assessment Alternative Performance Assessment (back of assessment guide) Lab Practical Suggested Writing Prompts: When thinking of force and motion you also have to think about cause & effect. Read the paired texts on ReadWorks.org -"Using Technology to Help Animals." Write an informational essay that explains how technology is helping animals in both of the articles. Describe at least two cause and effect scenarios in the articles. 				
	Differentiated Student Access to Content: Teaching and Learning <i>Resources/Materials</i>					
Core Resources	Alternate Core Resources IEP/504/At-Risk/ESL	ELLGifted & TalentedCore ResourcesCore Resources				
 Evidence Notebook Equipment Kit On Level Readers Online Simulations Dimensions TE Dimensions SE 	 In addition to Core Resources: Extra Support Readers Science and Engineering Practices Online Handbook 	 In addition to Core Resources: Science Thesaurus Extra Support Readers Science and Engineering Practices Online Handbook 	In addition to Core Resources: • Enrichment Readers			
Supplemental Resources						

Dev. Date: Est. Date: 2016-2017 Dev. Date:2022-2023

Technology: • Chromebook • SMARTBoard Ed Science Platform: • Digital Assessments • Digital Performance Tasks • You Solve It Simulations • Google Expeditions • Student eBook • Video-Based Projects • Science Tools • Online Glossary • National Geographic							
Differentiated Student Access to Content: Recommended Strategies & Techniques							
Core Resources	Alternate Core Resources IEP/504/At-Risk/ESL	ELL Core Resources	Gifted & Talented Core				
 Deliver instruction utilizing varied learning styles including audio, visual, and tactile/kinesthetic Provide individual instruction as needed 	 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 test for additional credit, Provide additional times and preferential seating 	 Extend time requirements Preferred seating Positive reinforcement Check often for understanding/review Oral/visual directions/prompts when necessary Supplemental materials including use of online bilingual dictionaries, 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 Connect student to related talent development opportunities 				

	 as needed, Review, restate and repeat directions Provide study guides, and/or break assignments into segments of shorter tasks 	
NJSLS CAREER READINESS, LIFE LITERACIES & KEY SKILLS	 Disciplinary Concept: 1. Career Awareness & Planni 2. Creativity and Innovation 3. Critical Thinking & Problem 4. Global & Cultural Awarene 5. Information and Media Lite 6. Technology Literacy 	n-Solving is
	Core Ideas:	 An individual's passions, aptitude and skills can affect his/her employment and earning potential. Collaboration with individuals with diverse perspectives can result in new ways of thinking and/or innovative solutions Curiosity and a willingness to try new ideas (intellectual risk-taking) contributes to the development of creativity and innovation skills. The ability to solve problems effectively begins with gathering data, seeking resources, and applying critical thinking skills. Individuals from different cultures may have different points of view and experiences. Culture and geography can shape an individual's experiences and perspectives. Specific situations require the use of relevant sources of information. Different digital tools have different purposes.

	• Collaborating digitally as a team can often develop a better artifact than an individual working alone.
Performance Expectation/s:	 9.2.5.CAP.1: Evaluate personal likes and dislikes and identify careers that might be suited to personal likes. 9.2.5.CAP.3: Identify qualifications needed to pursue traditional and non-traditional careers and occupations. 9.2.5.CAP.4: Explain the reasons why some jobs and careers require specific training, skills, and certification (e.g., life guards, child care, medicine, education) and examples of these requirements 9.4.5.CL1: Use appropriate communication technologies to collaborate with individuals with diverse perspectives about a local and/or global climate changE 9.4.5.CL3: Participate in a brainstorming session with individuals with diverse perspectives to expand one's thinking about a topic of curiosity (e.g., 8.2.5.ED.2, 1.5.5.CR1a). 9.4.5.CT.4: Apply critical thinking and problem-solving strategies to different types of problems such as personal, academic, community and global (e.g., 6.1.5.CivicsCM.3). 9.4.5.GCA.1: Analyze how culture shapes individual and community perspectives and points of view (e.g., 1.1.5.C2a, RL.5.9, 6.1.5.HistoryCC.8). 9.4.5.TL.3: Format a document using a word processing application to enhance text, change page formatting, and include appropriate images, graphics, or symbols. 9.4.5.TL.5: Collaborate digitally to produce an artifact (e.g., 1.2.5CR1d).

Career Readiness, Life Literacies, & Key Skills Practices				
 Act as a responsible and contributing community member and employee. Consider the environmental, social and economic impacts of decisions. Demonstrate creativity and innovation. Utilize critical thinking to make sense of problems and persevere in solving them. Model integrity, ethical leadership and effective management. Plan education and career paths aligned to personal goals. 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: N.J.S.A. 18A 52:16A-88		Holocaust Law: N.J.S.A. 18A:35-28		LGBT and Disabilities Law: <i>N.J.S.A.</i> <i>18A:35-4.35</i>	Х	Diversity & Inclusion: <i>N.J.S.A. 18A:35-4.36a</i>		Standards in Action: <i>Climate Change</i>