Name: Reynolds, Moon			Grading Quarter: 2	Week Beginning: Week 4 11/4/24-11/8/24	
School Year: 2024-2025			Subject: Science		
Monday	Notes: Grade 4 Unit 1: Forces and Energy Lesson 1: Forces and Motion Essential Question: How do forces affect motion?	Objective: • Student and-effe • Student the rate • Student between Lesson Overview • Explain o	s will construct an explane ect relationship between s will consider how the su at which that object falls s will understand that en n objects. Pages 16-17- Inquiry Acti Materials: 2 sheets State the Claim Make a c area of a falls. Carry Out Investi Record f Communicate In Do your predictio What ev construct energy c Explain h to move Talk About It How cou	aation to describe the cause- forces and motion. urface area of an object affects s. ergy can be transferred wity: An Object's Surface Area of notebook paper claim about how the surface in object affects its speed as it gation indings. formation results support your on? idence could an engineer use to t an explanation about the f airplanes? now engineers design vehicles efficiently through the air.	Academic Standards: 5.P3U1.4 Obtain, analyze, and communicate evidence of the effects that balanced and unbalanced forces have on the motion of objects. 5.P3U2.5 Define problems and design solutions pertaining to force and motion. 5.P4U1.6 Analyze and interpret data to determine how and where energy is transferred when objects move.

	Notes:	Objective:	Academic
	Grade 4	 Students will construct an explanation to describe the cause- 	Standards:
Tuesday	Grade 4 Unit 1: Forces and Energy Lesson 1: Forces and Motion Essential Question: How do forces affect motion?	 Students will construct an explanation to describe the cause-and-effect relationship between forces and motion. Lesson Overview: Elaborate Page 18- What Does a Robotics Engineer Do? Have students read and answer questions. Talk About It 	Standards: 5.P3U1.4 Obtain, analyze, and communicate evidence of the effects that balanced and unbalanced forces have on the motion of objects. 5.P3U2.5 Define problems and design solutions pertaining to force and motion. 5.P4U1.6 Analyze and interpret data to determine how and where energy is transferred when objects move.

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	Notes:	Objective:	Academic
	Grade 4 Unit 1:	 Students will construct an explanation to describe the cause- 	Standards:
		and-effect relationship between forces and motion.	5.P3U1.4
	Forces and Energy	• Use evidence to construct an explanation relating the speed of	Obtain, analyze, and
	Lesson 1:	an object to the energy of that object.	communicate
	Forces and Motion	 Ask questions and predict outcomes about the changes in 	evidence of the
	Essential	energy that occur when objects collide	and unbalanced
	Question: How do forces affect motion?	energy that occur when objects conde.	forces have on the
		Lesson Overview:	motion of objects.
		Evaluate	5.P3U2.5
		 Pages 20-22- Lesson 1 Review 	Define problems and
			design solutions
		 Summarize It 	pertaining to force
<		 Explain how forces affect the motion of 	5.P4U1.6
<e e<="" td=""><td></td><td>the skydiver.</td><td>Analyze and</td></e>		the skydiver.	Analyze and
dn		 Three-Dimensional Thinking 	interpret data to
es		 If a race car traveled a distance of 500 	determine how and
da		kilometers in 2 hours, what was the	where energy is transferred when
<		car's average speed?	objects move.
		 How can you best describe an object's 	
		motion?	
		• If the drag forces are increased, then	
		how will an abject fall?	
		 Evtend It 	
		- Chudonte will work with their groups to	
		 Students will work with their groups to 	
		collaborate on a design for a parachute	
		that will land a boiled egg as slowly and	
		as softly as possible.	
		 Open Inquiry 	
		 What questions do you still have about 	
		how objects move?	

	Notes:	Objective:	Academic
	Grade 4	• Students will construct an explanation to describe the cause-	Standards:
	Unit 1:	and-effect relationship between forces and motion.	5.P3U1.4
	Forces and Energy		Obtain, analyze, and
	Lesson 1:	Lesson Overview:	communicate
	Forces and Motion	Unit 1 Lesson 1: Forces and Motion Test	evidence of the
	Essential		effects that balanced
	Question:		forces have on the
Th	How do forces affect		motion of objects.
urs	motion?		5.P3U2.5
da			Define problems and
ΥE			design solutions
			pertaining to force
			and motion.
			5.P4U1.6
			Analyze and
			interpret data to
			determine how and
			where energy is
			chiects move
	Notes:	Objective:	Academic
	No School	No School	Standards:
	NO SCHOOL		No School
۴r			
id		Lesson Overview.	
ay		No School	