Name:		Grading Quarter:	Week Beginning: Week 8		
Reynolds, Moon		2	12/2/24-12/0	12/2/24-12/6/24	
School Year: 2024-2025			Subject: Science		
Monday	Notes: Grade 4 Unit 1: Forces and Energy Lesson 3: Energy Transfer in Collisions Essential Question: How does energy transfer when objects collide?	Objective: • Student: describe Lesson Overview • Access F o • Engage o	s will ask questions and c e the transfer of energy w v: Prior Knowledge Page 41- Page Keely Scien Three friends we Betty crashed he each had differer transferred durin Students write th had the right exp Pages 42-43- Encounter t the motion of cars chang Video: <i>Rear-End</i> Sample questions Why did Where d they crass How can	onstruct an explanation to hen objects collide. nce Probe: <i>Toy Car Crash</i> re playing with their toy cars. r car into Alonso's car. They nt ideas about what was g the crash. neir guess as to which friend lanation and why. the Phenomenon: How does e when they collide? <i>Collision</i> s for page 43: the cars crash? id the cars' energy go when thed? you stay safe in car crashes?	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.
Tuesday	Notes: Grade 4 Unit 1: Forces and Energy Lesson 3: Energy Transfer in Collisions Essential Question: How does energy transfer when objects collide?	 Student: describe Lesson Overview Explain O 	s will ask questions and c e the transfer of energy w v: Page 48- Inertia in Collisio • Academic Vocabu • <u>Collision</u> • objects h Page 49- Momentum in C • Academic Vocabu • <u>Moment</u> somethir • Why is it importa you are in a movi	onstruct an explanation to hen objects collide. Ons ulary: • occurs when two or more it each other with a force. Collisions ulary: <u>um</u> - the strength or force ng has when it is moving. int to wear a seat belt when ing vehicle?	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 ask questions and construct an explanation to 	Standards:
	Unit 1:	describe the transfer of energy when objects collide.	5.P3U1.4
Wednesday	Forces and Energy Lesson 3: Energy Transfer in Collisions Essential Question: How does energy transfer when objects collide?	 Lesson Overview: Explain Pages 50-51- Close Reading: Energy Transfers in Collisions Page 52- Conservation of Energy 	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 ask questions and construct an explanation to 	Standards:
	Unit 1:	describe the transfer of energy when objects collide.	5.P3U1.4
	Forces and Energy		Obtain, analyze, and
	Lesson 3:	Lesson Overview:	communicate
	Energy Transfer in	Explore	evidence of the
	Collisions	Dages 44.46 Inquiry Activity Evalure Tey Car Crashes	effects that balanced
	Essential	o Pages 44-46- inquiry Activity: Explore Toy Car Crashes	and unbalanced
Τh	Ouestion:	 Materials: 	forces have on the
ūr	How does energy	 Make a Prediction 	
sd	transfer when	 Carry Out an Investigation 	5.P3UZ.5
ay	objects collide?	 Communicate Information 	design solutions
			pertaining to force
			and motion.
			5.P4U1.6
			Analyze and
			interpret data to
			determine how and
	1		where energy is
			transferred when

	Notes:	Objective:	Academic
	Grade 4	 Students will ask questions and construct an explanation to 	Standards:
Friday	Notes: Grade 4 Unit 1: Forces and Energy Lesson 3: Energy Transfer in Collisions Essential Question: How does energy transfer when objects collide?	 Objective: Students will ask questions and construct an explanation to describe the transfer of energy when objects collide. Lesson Overview: Elaborate Page 56- Crash! Page 57- STEM Career Connection 	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.