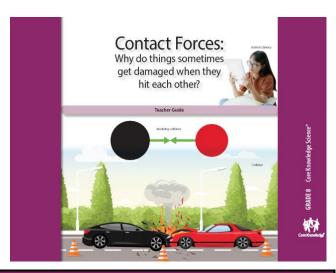
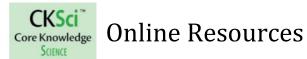
## **Contact Forces**

Links for all online resource are in this table. Page numbers refer to pages in the Teacher Guide where the online resource is used. Some links provide access to files created by the Core Knowledge Foundation, including PDF documents that you can download and view with the appropriate software (such as Adobe Reader).



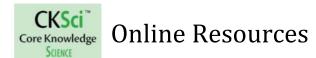
Resource Links		
1	Program-Wide	
	<u>Teacher Handbook: Overview of the Core Knowledge Middle School</u> <u>Science Program</u>	
	Communicating in Scientific Ways (small poster)	
	Classroom Norms (small poster)	
	Unit-Specific	
	Materials Supply List: Grade 8 Unit 1 Contact Forces	
	Pacing Guide for Grade 8 Unit 1 Contact Forces	
	Lesson Guidance Slides: 8.1 Contact Forces	
	<u>Unit 8.1. Teacher Notes for Slides</u>	
	NGSS Standards and Dimensions	
12	[WEBLINK] Middle School Safety Acknowledgment Form	
19	[WEBLINK] Prior conceptions documented by the American Association for the Advancement of Science, Project 2061	
Science	Science Literacy: Preface	
25	[VIDEO] How to enter the WATER from ANY HEIGHT tutorial [WEBLINK] How Cliff Diving Works	

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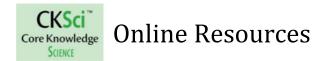


Lesson 2				
59	[VIDEO] <u>Lesson 2 Preparing Sugar Glass - 8.1 Contact Forces</u>			
69	[VIDEO] Golf ball colliding with CD case			
	[VIDEO] Carts with rubber stoppers about to collide			
	[VIDEO] Carts with metal rings colliding			
Science	Science Literacy: Reading Collection 1			
81	[WEBLINK] Concussion Signs and Symptoms			
	[VIDEO] HEADS UP to School Sports: Athletes			
	[WEBLINK] Sports and Concussions			
	[WEBLINK] The Concussion Puzzle: 5 Compelling Questions			
	[VIDEO] Wordcloud Generator			
Lesso	n 3			
85	[VIDEO]Collision showing bumpers			
	[VIDEO]Slow motion video of golf club hitting a golf ball			
	[VIDEO]Baseball and bat collision			
87	[VIDEO]Strength Testing of Concrete Bridge			
92	[VIDEO]Lesson 3 Setting up Laser to Test Deformation - 8.1 Contact Forces			
Lesson 4				
103	[VIDEO] <u>Uniaxial Tension and Compression Testing of Materials</u>			
Lesson 5				
131	[VIDEO]Carts colliding with brick			
133	[VIDEO]Carts with different masses Collision			
Science	Science Literacy: Reading Collection 2			
206	[WEBLINK]Canva Design tool			
	[WEBLINK]Genially presentation site			
	[WEBLINK]Easelly infographic tool			
	[WEBLINK]PIK10CHART visual content tool			
	[WEBLINK]Adobe Spark			
Lesso	Lesson 7			

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168	[VIDEO]Condition A - regular speed & mass		
100	[VIDEO]Condition B - regular speed & double mass		
	[VIDEO]Condition C - double speed & regular mass		
171	[WEBLINK]Collision Simulation		
Lesso	Lesson 9		
195	[WEBLINK] <u>Friction Simulation</u> ; [WEBLINK] <u>Lab Station Instructions</u>		
Science	Science Literacy: Reading Collection 3		
211	[WEBLINK]Adobe Spark [WEBLINK]Canva Design tool [WEBLINK]IMGFlip Meme Generator [WEBLINK]Mematic-The Meme Maker		
Science Literacy: Reading Collection 4			
247	[WEBLINK] <u>Explainer: What are polymers?</u> [WEBLINK] <u>What is a Polymer?</u> [WEBLINK] <u>What's a polymer?</u>		
Lesson 12			
252	[VIDEO]Lesson 12 Setting up Investigation on the Ramp - 8.1 Contact Forces		
Lesson 13			
279	[VIDEO]Cart & brick Collision - no rings [VIDEO]Cart & Brick Collision - 1 Ring on Brick [VIDEO]Cart & Brick Collision - 1 Ring on Cart [VIDEO]Cart & Brick Collision - 2 Rings on Brick [VIDEO]Cart & Brick Collision - 2 Rings on Cart		
296	[WEBLINK]HEADS UP Resource Center [WEBLINK]Concussion Fact Sheet for Young Athletes [WEBLINK]Conmoción Cerebral en el Deporte Juvenil [WEBLINK]Bike Helmet Safety		
Science Literacy: Reading Collection 5			
302	[VIDEO]How Does a Turntable Work?		
Lesso	n 15		



325	[VIDEO]2019 UNIVERSITY OF KENTUCKY CHEERLEADERS - 24 TIME NATIONAL CHAMPIONS	
Science Literacy: Reading Collection 5		
341	[VIDEO] <u>The best dives at #Tokyo2020</u> [WEBLINK] <u>Not making a splash: the anatomy of a perfect Olympic dive</u>	

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