

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 Teacher Handbook: Overview of the Core Knowledge Middle School Science Program 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 Unit 8.1. Teacher Notes for Slides 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 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] Lesson 2 Preparing Sugar Glass - 8.1 Contact Forces
69	[VIDEO] Golf ball colliding with CD case [VIDEO] Carts with rubber stoppers about to collide [VIDEO] Carts with metal rings colliding
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
Lesson 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] Uniaxial Tension and Compression Testing of Materials
Lesson 5	
131	[VIDEO] Carts colliding with brick
133	[VIDEO] Carts with different masses Collision
Science Literacy: Reading Collection 2	
206	[WEBLINK] Canva Design tool [WEBLINK] Genially presentation site [WEBLINK] Easel.ly infographic tool [WEBLINK] PIK10CHART visual content tool [WEBLINK] Adobe Spark
Lesson 7	

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168	[VIDEO]Condition A - regular speed & mass [VIDEO]Condition B - regular speed & double mass [VIDEO]Condition C - double speed & regular mass
171	[WEBLINK]Collision Simulation
Lesson 9	
195	[WEBLINK]Friction Simulation ; [WEBLINK]Lab Station Instructions
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]Explainer: What are polymers? [WEBLINK]What is a Polymer? [WEBLINK]What's a polymer?
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?
Lesson 15	

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

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