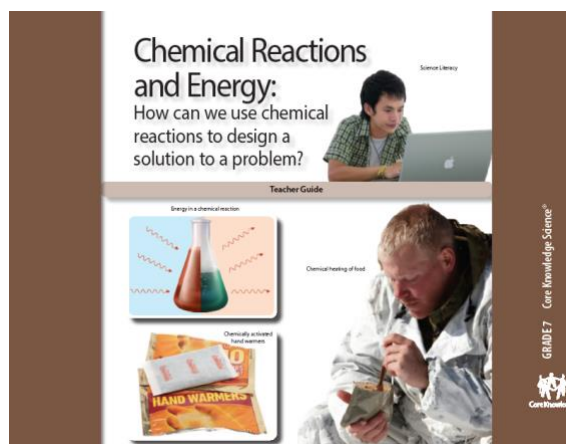


Chemical Reactions & Energy

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	<p>Program-Wide</p> <p>Teacher Handbook: Overview of the Core Knowledge Middle School Science Program</p> <p>Communicating in Scientific Ways (small poster)</p> <p>Classroom Norms (small poster)</p> <p>Unit-Specific</p> <p>Materials Supply List: Grade 7 Unit 2 Chemical Reactions & Energy</p> <p>Pacing Guide for Grade 7 Unit 2 Chemical Reactions & Energy</p> <p>Lesson Guidance Slides: 7.2 Chemical Reactions & Energy</p> <p>Grade 7 Unit 2 Teacher Notes for Lessons Slides</p> <p>NGSS Standards and Dimensions</p>
9	[WEBLINK] Middle School Safety Acknowledgment Form
Science Literacy Preface	
22	[VIDEO] Flameless Cooking: Introducing the HydroHeat
Lesson 1	
27	[VIDEO] 7.2 Lesson 1 Person Eating an MRE [WEBLINK] Family and Friends MRE Survey
31	[WEBLINK] Experiencing Physical Warmth Promotes Interpersonal Warmth [WEBLINK] Meals Ready to Eat Natick Labs: The Science Behind Military Food
34	[WEBLINK] Kagan Online

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Lesson 2	
58	[VIDEO] 7.2 Lesson 2 Contents of the MRE Heater [VIDEO] 7.2 Lesson 2 Contents of the Hand Warmer [VIDEO] 7.2 Lesson 2 Timelapse of MRE Heater Set-Up [VIDEO] 7.2 Lesson 2 Timelapse of Handwarmer Set-Up
Science Literacy: Reading Collection 1	
88	[VIDEO] Science of the self-heating hot pot: an exothermic CaO + H₂O chemical reaction!
90	[VIDEO] Dehydrating Food for Backpacking
Lesson 3	
96	[VIDEO] 7.2 Lesson 3 Doubling Reactants or Food [VIDEO] 7.2 Lesson 3 Temp Change - Root Killer & Aluminum
97	[VIDEO] 0:02 / 3:19 7.2 Lesson 3 Temp Change for Steel Wool in Air [VIDEO] 7.2 Lesson 3 Preparing Steel Wool in Vinegar [VIDEO] 7.2 Lesson 3 Preparing Cabbage Juice Solution [VIDEO] 7.2 Lesson 3 Preparing Saltwater Solution [VIDEO] 7.2 Lesson 3 Shredding Aluminum Foil
Lesson 4	
138	[WEBLINK] Safe Minimum Cooking Temperatures Chart [WEBLINK] Foodborne Germs and Illnesses
155	[WEBLINK] Flameless Heater Stakeholder Survey [WEBLINK] Example Flameless Heater Stakeholder Survey
Science Literacy: Reading Collection 2	
160	[WEBLINK] 4K Rising Pizza Dough TIME LAPSE - SUPER COOL ! [WEBLINK] The Most Satisfying Video (Timelapse Magic Of Bread Making)
161	[WEBLINK] Making Ice Cream with Salt: The Effect of Salt on the Freezing and Boiling Points of Water
Lesson 6	
192	[VIDEO] 7.2 Lesson 6 Massing MRE Entree

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Science Literacy: Reading Collection 3	
227	[WEBLINK] Engineering Design Process
229	[VIDEO] What Does A Sound Engineer Do? The Recording Studio
Lesson 8	
236	[WEBLINK] How can I promote equitable sensemaking by setting expectations for multiple perspectives?
Lesson 9	
253	[WEBLINK] Flameless Heater Instructions Survey
Lesson 10	
272	[WEBLINK] Flameless Heater Instructions Survey
275	[WEBLINK] Graffiti Boards
Science Literacy: Reading Collection 4	
279	[WEBLINK] Lemon meringue pie baking contest at the 2021 Iowa State Fair
281	[WEBLINK] 10 Ways Advertisers Are Tricking You Everyday
Teacher Resources	
295	[WEBLINK] Family and Friends MRE Survey [WEBLINK] Example Flameless Heater Stakeholder Survey [WEBLINK] Flameless Heater Stakeholder Survey [WEBLINK] Flameless Heater Instructions Survey
303	[WEBLINK] AMERICAN CHEMICAL SOCIETY Guidelines for Chemical Laboratory Safety in Secondary Schools [WEBLINK] Material Safety Data Sheet: Cupric Sulfate Pentahydrate

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