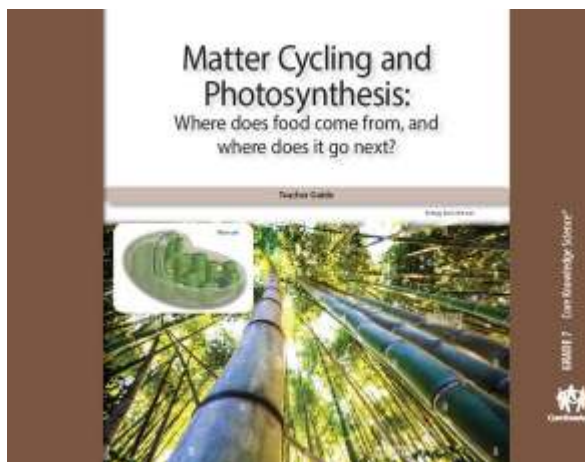


Matter Cycling and Photosynthesis

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 4 Matter Cycling and Photosynthesis</p> <p>Pacing Guide for Grade 7 Unit 4 Matter Cycling and Photosynthesis</p> <p>Lesson Guidance Slides: 7.4 Matter Cycling and Photosynthesis</p> <p>Grade 7 Unit 3 Teacher Notes for Lessons Slides</p> <p>NGSS Standards and Dimensions</p>
16	[WEBLINK] Middle School Safety Acknowledgment Form
Lesson 1	
30	[VIDEO] Maple Tree Tapping - Unit 7.4 Matter Cycling & Photosynthesis Lesson 1
Lesson 2	
58	<p>[VIDEO] Hydroponic Kit Set Up: Overview - Unit 7.4 Matter Cycling & Photosynthesis Lesson 2</p> <p>[VIDEO] Hydroponic Kit Set Up: Inserting the Plugs - Unit 7.4 Matter Cycling & Photosynthesis Lesson 2</p>

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	<p>[VIDEO] Hydroponic Kit Set Up: Placing the Sowed Seeds - Unit 7.4 Matter Cycling & Photosynthesis Lesson 2</p> <p>[VIDEO] Hydroponic Kit Set Up: Placing Under Grow Lights - Unit 7.4 Matter Cycling & Photosynthesis Lesson 2</p> <p>[VIDEO] Troubleshooting when Plants Don't Grow - Unit 7.4 Matter Cycling & Photosynthesis Lesson 2</p> <p>[VIDEO] Setting up for the Indicator Lab - Unit 7.4 Matter Cycling & Photosynthesis Lesson 2</p>
59	<p>[VIDEO] Preparing Food Samples for the Indicator Lab - Unit 7.4 Matter Cycling & Photosynthesis Lesson 2</p> <p>[VIDEO] Preparing the Benedict's Solution Indicator - Unit 7.4 Matter Cycling & Photosynthesis Lesson 2</p>
Science Literacy: Reading Collection 1	
79	[WEBLINK] THE U.S. MARKET FOR AVOCADO
80	<p>[WEBLINK] Kids Meme Generator</p> <p>[WEBLINK] SAFE FOR SCHOOL MEME GENERATOR</p>
Lesson 4	
96	[VIDEO] Above the Surface Inputs Investigation Set Up - Unit 7.4 Matter Cycling & Photosynthesis Lesson 4
Lesson 5	
113	[VIDEO] Video of Elodea under a Microscope - Unit 7.4 Matter Cycling & Photosynthesis Lesson 5
Lesson 6	
127	[WEBLINK] Simulation: Chloroplasts and Food
Lesson 9	
174	[VIDEO] Maple Tree Tapping - Unit 7.4 Matter Cycling & Photosynthesis Lesson 1
Lesson 10	
183	[VIDEO] Spinach in the Dark Investigation Set Up - Unit 7.4 Matter Cycling & Photosynthesis Lesson 10
Science Literacy: Reading Collection 3	
203	[WEBLINK] Science Buddies

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	<p>[WEBLINK] CK-12's FlexBook® 2.0</p> <p>[VIDEO] Doing Science: Water Temperature and Dissolved Oxygen</p>
Lesson 11	
209	<p>[VIDEO] Set Up for the Bean Seeds Investigation - Unit 7.4 Matter Cycling & Photosynthesis Lesson 11</p> <p>[VIDEO] Timelapse of Chili Seeds Sprouting - Unit 7.4 Matter Cycling & Photosynthesis Lesson 11</p> <p>[VIDEO] Timelapse of a Maple Tree over 14 Years - Unit 7.4 Matter Cycling & Photosynthesis Lesson 11</p>
Lesson 12	
230-231	<p>[VIDEO] Making Sap into Syrup in a Sugar Shack - Unit 7.4 Matter Cycling & Photosynthesis Lesson 12</p> <p>[VIDEO] How Corn Syrup is Made - Unit 7.4 Matter Cycling & Photosynthesis Lesson 12</p> <p>[VIDEO] How Flour is Made (Optional Video) - Unit 7.4 Matter Cycling & Photosynthesis Lesson 12</p>
Science Literacy: Reading Collection 4	
254	<p>[VIDEO] The Plant Cell 13 Key Structures</p> <p>[WEBLINK] Plant & Animal Cells</p> <p>[VIDEO] Plant cell vs Animal cell (Compare and Contrast)</p> <p>[WEBLINK] Cell Wall - What's it for?</p>
Lesson 13	
259	<p>[VIDEO] Timelapse of Uneaten Pumpkin - Unit 7.4 Matter Cycling & Photosynthesis Lesson 13</p> <p>[VIDEO] Rotting Kebab - Time Lapse</p> <p>[VIDEO] Timelapse of Oak Log - Unit 7.4 Matter Cycling & Photosynthesis Lesson 13</p>
Science Literacy: Reading Collection 5	
290	<p>[WEBLINK] Calculate Your Carbon Footprint</p> <p>[WEBLINK] EPA: Carbon Footprint Calculator</p> <p>[WEBLINK] MyClimate: Compensate your personal carbon footprint!</p> <p>[WEBLINK] EPA: Sustainable Management of Food</p> <p>[WEBLINK] The Nutrition Source</p>

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Online Resources

	[WEBLINK] Food Loss and Waste Database
Lesson 15	
293	[VIDEO] Whale Fall on Sea Floor- Unit 7.4 Matter Cycling & Photosynthesis Lesson 15

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