

Earth in Space

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	
	Teacher Handbook
1	Materials Supply List: Grade 8 Unit 4 Earth in Space Pacing Guide for Grade 8 Unit 4 Earth in Space [WEBLINK] Lesson Guidance Slides: 8.4 Earth in Space Unit 8.4 Teacher Notes for Slides NGSS Standards and Dimensions
20	[WEBLINK] Middle School Safety Acknowledgment Form
21	[WEBLINK] NPR Student Podcast Challenge [WEBLINK] Indigenous Sky Knowledge
Lesson 1	
41	[VIDEO] 8.4 Lesson 1 Podcast: The Descent of the Feathered Serpent [VIDEO] 8.4 Lesson 1: Podcast: Wombat Season [VIDEO] 8.4 Lesson 1: Podcast: Rebirth of Selemela [VIDEO] 8.4 Lesson 1: Podcast: As It Is Above, It Is Below
43	[VIDEO] 8.4 Lesson 1 Manhattanhenge
54	[WEBLINK] NPR Student Podcast Challenge
Lesson 2	
71	[VIDEO] 8.4 Lesson 2 Navajo Story of the Stars [VIDEO] 8.4 Lesson 2 Paiute Star Stories

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	[VIDEO] 8.4 Lesson 2 Observing the Sky
Lesson 3	
84	[VIDEO] 8.4 Lesson 3 Measuring the Sun: January - March [VIDEO] 8.4 Lesson 3 Measuring the Sun: April - June [VIDEO] 8.4 Lesson 3 Measuring the Sun: July - September [VIDEO] 8.4 Lesson 3 Measuring the Sun: October - December [VIDEO] 8.4 Lesson 3 Sun Measurement Orientation
91	[WEBLINK] NOAA Solar Calculator [WEBLINK] NOAA Solar Position Calculator
Lesson 4	
111	[WEBLINK] NOAA Climate Data Online
114	[VIDEO] 8.4 Lesson 4 Modeling Sunlight Angles Investigation
115	[WEBLINK] NOAA Meteorological Versus Astronomical Seasons
Science Literacy: Reading Collection 1	
129	[WEBLINK] Pleiades – or 7 Sisters – known around the world [WEBLINK] NASA's Messier Catalog [VIDEO] HOW MANY PLEIADES CAN YOU SEE?
Lesson 5	
134	[WEBLINK] Stellarium [VIDEO] 8.4 Lesson 5 Using Stellarium for Manhattenhenge
142	[WEBLINK] Moonrise and Moonset Calculator — City Lookup
Lesson 6	
146	[WEBLINK] NASA Moon Phase and Libration, 2021 [WEBLINK] Moon Shape Patterns
153	[VIDEO] 8.4 Lesson 6 A New View of the Moon
154	[VIDEO] NASA The Story Behind Apollo 8's Famous Earthrise Photo
Lesson 7	
164	[VIDEO] 8.4 Lesson 7 Total Solar Eclipse
166	[WEBLINK] NPR Eclipse 2017: One Nation Under The Sun

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169	[WEBLINK] Eclipse Explorer
Science Literacy: Reading Collection 2	
116	[WEBLINK] A VERY SHORT HISTORY OF CINEMA [WEBLINK] The History of Movies [VIDEO] Le Voyage dans la lune de Georges Méliès 1902 film complet
Lesson 8	
195	[WEBLINK] 8.4 Lesson 8 Lunar Eclipse
197	[WEBLINK] Find Solar & Lunar Eclipses in Your City
Lesson 9	
205	[VIDEO] 8.4 Lesson 9 Sunset from the ISS
Lesson 10	
221	[VIDEO] 8.4 Lesson 10 Light and Milky Way Lab
Lesson 11	
234	[VIDEO] 8.4 Lesson 11 Shape of Water Drop [WEBLINK] 8.4 Lesson 11 Refraction Path of Light
Science Literacy: Reading Collection 3	
147	[WEBLINK] The Ultimate List of Graphic Organizers for Teachers and Students
Lesson 12	
260	[VIDEO] 8.4 Lesson 12 Marker Caps under Water [VIDEO] 8.4 Lesson 12 NASA Earthshine
Lesson 13	
277	[VIDEO] 8.4 Lesson 13 Transit of Venus [WEBLINK] NASA'S Eyes [VIDEO] 8.4 Lesson 13 NASA Eyes on the Solar System Tour
287	[WEBLINK] NASA Eclipse Website
290	[WEBLINK] Gravity Assist Podcast
293	[WEBLINK] MAP A MODEL SOLAR SYSTEM [WEBLINK] NASA'S Eyes

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Online Resources

	[VIDEO] 8.4 Lesson 13 NASA Scale of the Solar System
Science Literacy: Reading Collection 4	
214	[VIDEO] Carl Sagan - Cosmos - Galaxies [VIDEO] Cosmos - Carl Sagan - 4th Dimension [WEBLINK] Drake Equation
Lesson 14	
232	[WEBLINK] Exploring Orbits Fixed Perspective Simulation [WEBLINK] Exploring Orbits Adjustable Perspective Simulation
Lesson 15	
326	[VIDEO] 8.4 Lesson 15 Simulating Solar System Formation
Lesson 16	
336	[VIDEO] 8.4 Lesson 16 Tour of the Universe
338	[WEBLINK] Galaxy Zoo
Lesson 17	
344	[VIDEO] 8.4 Lesson 17 Reflections on the Pale Blue Dot
345	[VIDEO] 8.4 Lesson 16 Tour of the Universe
347	[WEBLINK] Galaxy Zoo
348	[WEBLINK] Black Holes

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