

Title URL	Website Description	Type of Resource
<p><i>MY NASA Data (Mentoring and inquiry Data on Atmospheric and earth science for Teachers and Amateurs)</i> http://mynasadata.larc.nasa.gov/</p>	<p>This website, which is part of NASA’s Research Education and Applications Solutions Network, incorporates k-12 lesson plans, supporting information, and a user-friendly interface for students and educators to access real data. There are static, small sets of data that enable students and educators to explore a single variable. Additionally, students and educators can create a custom data set to analyze. In addition to accessible data, teachers will find a variety of ready-made, grade level appropriate lesson plans on a variety of atmospheric and Earth science topics.</p>	<ul style="list-style-type: none"> • Data Collection • Student Research • Lesson Plans • Content
<p><i>NASA: Exploring the Moon Educator Guide</i> http://www.nasa.gov/audience/foreducators/topnav/materials/listbytype/Exploring.the.Moon.html</p>	<p>This website provides a teacher guidebook with activities appropriate for grades 4-12. The guidebook provides teachers with 16 pages of background information on the moon. Earth and space science subjects including lunar geology, lunar regolith, distance to the moon, Apollo landing sites, and life support systems are covered through activities that promote problem solving, communication skills, and teamwork.</p>	<ul style="list-style-type: none"> • Lesson Plans • Content • Teacher resources
<p><i>NASA Earth Observatory</i> http://earthobservatory.nasa.gov/Experiments/index.php</p>	<p>The “experiments” found at the NASA Earth Observatory website provide students with interactive activities which illustrate the art and science of space-based remote sensing. The experiments focus on how NASA uses remote sensing to study how and why the Earth Changes. We recommend the activities found in “Mission: Biomes” (Grades 3-8), “Global Warming” (Grades 5-8), and “Image Composite Explore” (Grade 5-8).</p>	<ul style="list-style-type: none"> • Data Collection • Student Research • Online student activities • Content • Teacher resources
<p><i>NASA Earth Observations</i> http://neo.sci.gsfc.nasa.gov/Search.html</p>	<p>This website provides a graphic-based tool for data browsing and analysis. Educators and students can search for satellite images, download and export the</p>	<ul style="list-style-type: none"> • Data Collection • Student

	images to GoogleEarth, and perform basic data analyses. You can use these images to track regional and global changes around the world! We recommend this resource for teachers to gather images for their classes or for upper elementary students to use for research.	<ul style="list-style-type: none"> • Research • Teacher resources
<p><i>Digital Library for Earth System Education</i> http://www.dlese.org/library/index.jsp</p>	Although not directly associated with NASA, this website provides a collection of quality science lessons for educators of all grade levels. Click on “browse the library” and then select “NASA reviewed collection” from the drop down menu to see the lessons reviewed by NASA scientists and educators. From this collection, you can browse by subject, grade level, resource type, or standards.	<ul style="list-style-type: none"> • Lesson Plans • Teacher resources
<p><i>Cryospheric Science Program</i> http://ice.nasa.gov/</p>	Water covers three-fourths of the Earth’s surface and ten percent is covered in ice. Educators and can learn about the cryosphere and locate videos to share with their students. Under the “multimedia” link, educators can find several videos to share with their students including: “Frozen Earth,” which features a video of satellite images of ice from space; “A Tour of the Cryosphere 2009,” which provides an overview of ice sheets, glaciers, and melting; and “Global Ice Viewer,” which illustrates past and present ice coverage.	<ul style="list-style-type: none"> • Video • Content
<p><i>SETI: Life in the Universe Curriculum</i> http://www.seti.org/page.aspx?pid=364</p>	For grades 3-4, we recommend the “The Science Detectives.” This curriculum takes a mystery approach to learning as students use clues to track astronaut Amelia Spacehart through the solar system. A video is also available for download at this website. For grades 5-6, we recommend Volume 1 of the “SETI Academy Planet Project.” This curriculum focuses on planet habitability and other physical characteristics of the Earth.	<ul style="list-style-type: none"> • Lesson Plans • Content • Teacher resources • Video
<p><i>NASA eCLIPS</i> http://www.nasa.gov/audience/foreducators/nasaeclips/index.html or</p>	The <i>NASA eClips: Our World</i> videos provide educators with short, current videos that cover a variety of science topics. Teachers can access the videos through NASA’s educator website or though NASA’s YouTube channel.	<ul style="list-style-type: none"> • Video • Content • Educator Guides

http://www.youtube.com/user/NASAeClips	<p>On the NASA website, you can access many helpful hints on incorporating the videos into your classroom with the <i>Teacher Toolbox</i> including <i>Educator Guides</i> for some of the videos and links to NASA meteorology lessons. We recommend the following <i>Our World</i> videos: <i>Monitoring the Earth's Climate with CERES</i>, <i>What is a Cloud?</i>, <i>The Rock Cycle</i>, <i>Surface Currents</i>, <i>What is a Tide?</i>, and <i>The Moon</i>.</p>	<ul style="list-style-type: none"> • Lesson Plans
<p>NASA SciFiles http://scifiles.larc.nasa.gov/episodes.html (educator guides) http://www.knowitall.org/nasa/scifiles/index2.html or http://nasa.ibiblio.org/program.php?program=NASA-SCI-Files (Video) http://scifiles.larc.nasa.gov/treehouse.html (interactive website)</p>	<p>The NASA SciFiles was a series of Emmy® award-winning videos that emphasized standards-based learning of different science topics. The SciFiles are composed of three parts: (1) an educator guide; (2) a television broadcast; and (3) an interactive website. The interactive website has a portal for students, teachers, and parents. Students can access games that are related to the different cases. Although they are not currently produced, all three parts are still accessible at the provided websites. We recommend “The Case of the Shaky Quake” and “The Case of the Galactic Vacation.”</p>	<ul style="list-style-type: none"> • Video • Content • Educator Guides • Lesson Plans • Online student activities
<p><i>SkyTellers: Lunar and Planetary Institute</i> http://www.lpi.usra.edu/education/skytellers/</p>	<p>This unique site provides Native American myths and legends regarding the origin of the stars, the reason for day and night, and why we have seasons. Each narrative is accompanied by modern scientists’ explanations. The site includes activities, content information, and links to other multimedia resources.</p>	<ul style="list-style-type: none"> • Content • Educator Guides • Lesson Plans • Teacher resources
<p><i>Connect to the Moon: Lunar Planetary Institute</i> http://www.lpi.usra.edu/education/lprp/</p>	<p>The Lunar Planetary Institute (LPI) provides support and outreach for NASA. This LPI website provides a collection of resources for students, families, and educators. Resources for classroom teachers are divided by grade levels. Click on “Classroom Teachers” and then “K-4” to find the “Moon Quest” curriculum. During this activity, students (recommended grades K-8) work in teams to learn about moon myths and then discover the scientific facts behind them.</p>	<ul style="list-style-type: none"> • Content • Educator Guides • Lesson Plans • Teacher resources
<p>NASA Eclipse Web Site http://eclipse.gsfc.nasa.gov/eclipse.htm</p>	<p>This informational web site provides times and dates of future (and past) solar eclipses, lunar eclipses, and moon</p>	<ul style="list-style-type: none"> • Content

	<p>phases. We recommend that educators go to the Moon Phases tab and review the <i>Solar Eclipses for Beginners</i> and <i>Lunar Eclipses for Beginners</i> for a wonderful tutorial on eclipses.</p>	
<p><i>Moonlight Madness</i> http://starchild.gsfc.nasa.gov/docs/StarChild/solar_system_level2/activity/moonlight.html</p>	<p>This website provides students with a brief description of each moon phase. An interactive quiz follows the descriptions to test the students' knowledge and understanding of each phase of the moon.</p>	<ul style="list-style-type: none"> • Content • Online student activities
<p><i>Jet Propulsion Laboratory (JPL) – Classroom Activities</i> http://www.jpl.nasa.gov/education/teachers/</p>	<p>JPL has a wealth of resources for educators at this site. Among the resources, you will find classroom activities that cover a variety of Earth and space science topics. We recommend the following classroom activities: (1) Water Balloon/Climate Demo that has a link to a video, <i>Oceans of Climate Change</i>, which explains the science behind the activity and (2) Moon Phases.</p> <p>Exploring the educator resources at JPL is worth your time. You will find a section of “In-depth Activities,” professional development opportunities, and many others.</p>	<ul style="list-style-type: none"> • Lesson Plans • Teacher resources • Video
<p><i>Jet Propulsion Laboratory (JPL) – Video and Audio</i> http://www.jpl.nasa.gov/video/</p>	<p>Find images, videos, podcasts, interactive, and audio focusing on Earth and space science topics related to NASA missions. With the images found here, you can bring outer space inside your classroom! We recommend the “Interactive: Take the Sea Level Quiz” to test you and your students' misconceptions about climate change and sea level.</p>	<ul style="list-style-type: none"> • Video • Audio • Images • Podcasts • Online student activities