



Los Angeles Unified School District Division of Instruction

August 21, 2017 Total Solar Eclipse Resource Guide

On Monday, August 21, 2017, a partial to total eclipse of the sun will be visible from across America between 9:05 am and 11:44 am. Below is a list of online resources that support learning about the sun, moon and eclipses through hands-on STEM activities.

Live Streaming of the Solar Eclipse

NASA TV: Live Streaming of the Total Eclipse on August 21, 2017 starting at 9:00 am

Link: <https://www.nasa.gov/multimedia/nasatv/index.html#public>

Classroom Resources

1. **ASP Eclipse Resource Guide:** The Astronomical Society of the Pacific (ASP) provides a list of publications about exploring eclipses in and total eclipse of the sun on August 21, 2017.
Link: <https://www.astrosociety.org/education/astronomy-resource-guides/eclipse-resource-guide/>
2. **SED 2007 Sun Moon Comparison Activity:** This Sun-Earth Day (SED) hands-on exploration of how distance can affect the way we perceive the size of an object makes a good introduction to solar eclipses, as well as the sun and moon's sizes and distances from Earth.
Link: https://sunearthday.nasa.gov/2007/materials/eclipse_smallmoon_bigsun.pdf
3. **Eclipse Math – The Last Total Solar Eclipse Ever!:** The moon is slowly pulling away from the Earth. Using Algebra and Geometry, discover when last total solar eclipse will be seen.
Link: <https://spacemath.gsfc.nasa.gov/earth/4Page28.pdf>
4. **Eclipse Guide:** This guide is an introduction to eclipses and the August 21, 2017, total eclipse. It provides information on how to safely view an eclipse, where to get eclipse glasses and ideas for libraries to host eclipse events.
Link: <http://www.starnetlibraries.org/EclipseGuide/>
5. **Night Sky Network Outreach Resources:** This on-line resource provides classroom presentations to prepare for the total eclipse.
Link: https://nightsky.jpl.nasa.gov/download-view.cfm?Doc_ID=588
6. **NASA Museum Alliance Resources for Informal Education:** These on-line tools help visualize and track the total solar eclipse.
Link: <https://informal.jpl.nasa.gov/museum/eclipse2017>



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7. **National Informal STEM Education Network Earth-Space Kit:** These resources are a collaboration between NASA and the National Informal STEM Education (NISE) Network to provide engaging hands-on Earth and space science experiences with connections to science, technology and society.
Link: <http://nisenet.org/earthspacekit-2017>
8. **National Informal STEM Education Network Exploring the Solar System, Solar Eclipse:** Exploring the Solar System: Solar Eclipse, is a hands-on activity created by NISE Network, that demonstrates how the alignment of the sun, Earth, and moon can cause an eclipse.
Link: <http://nisenet.org/catalog/exploring-solar-system-solar-eclipse>
9. **NASA JPL Eyes on the Solar System Eclipse Simulator:** This interactive 3D simulation allows for the virtual viewing of the August 21, 2017, total eclipse anywhere in the world.
Link: <https://eyes.jpl.nasa.gov/eyes-on-eclipse.html>
10. **The Solar Eclipse of 2017: Teacher Toolkit:** K-12 ideas and information about what to do with students and the school community around the total eclipse.
Link: <http://bit.ly/Aug21TSEToolkit>
11. **PBS Learning Media: Exploring the Solar System:** PBS Learning in partnership with WGBH produced lessons and short videos for teachers and students on the solar eclipse of August 21, 2017.
Link: <https://mass.pbslearningmedia.org/shared/1539776/4513602/>
12. **U.S. News - Five Facts about the Solar Eclipse:** Information on what a solar eclipse is, how we learn from it, and how to prepare for August 21, 2017 total eclipse.
Link: <https://www.usnews.com/news/national-news/articles/2017-08-08/5-facts-to-know-about-the-solar-eclipse>
13. **Eclipse Map:** This is a map of the eclipse path on August 21, 2017 which provides how the eclipse will be seen in different locations.
Link: <https://www.timeanddate.com/eclipse/map/2017-august-21>
14. **NPR Solar Eclipse:** Multimedia audio and article resources provided by NPR for instruction before and after the solar eclipse.
Link: <http://www.npr.org/tags/535049411/solar-eclipse>