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## **Lunar Eclipse Viewing**

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Myriad Editions

The Danjon Scale of Lunar Eclipse Brightness illustrates the range of colors and brightness the Moon can take on during a total lunar eclipse and is a useful tool to observers in characterizing the appearance of an eclipse. The evaluation is best done with the naked eye, binoculars or a small telescope near

Finally, let's look at another type of solar eclipse called an annular eclipse. ♦ Change the viewing location back to the surface of the Earth and go to Albuquerque, NM ♦ Set the date and time to May 20th, 2012 at 6:20 pm ♦ Use the Find tab to Centre the Sun and set the Zoom to 3° Set time moving forward and watch the eclipse happen.

• Lunar eclipses happen a few times a year and the Moon appears red because of how light passes through Earth's atmosphere on its way to the Moon. • Solar eclipse: only happens during a new moon when the Moon is lined up perfectly between the Sun and the Earth. • During a solar eclipse, the Moon appears to block out the Sun.

Use the resources below to enable your students to explore lunar eclipses. Create a lunar eclipse lesson or unit that fits into your classroom curriculum with hands-on activities, demonstrations, video clips, online exploration, and presentations by telescopes for a viewing. Use the links below to locate a local astronomy club and/or speaker.

Use the resources below to enable your campers to explore lunar eclipses. Create a lunar eclipse program that fits your camp schedule and needs. demonstrations, and video clips, presentations by scientists from local colleges or universities, and a culminating lunar eclipse viewing event. Alternatively, pick one activity for your campers to

Total Lunar Eclipse of 2018 Jul 27 Ecliptic Conjunction = Greatest Eclipse = Penumbral Magnitude 2.6792  
Umbral Magnitude = 1.6087 Saros Series = Sun at Greatest Eclipse (Geocentric Coordinates) TD ( = UT ) 0.1168  
o. 10510 P. Radius = 1.17380 U. Radius = 0.64880 129 Member = 38 71 Greatest Gamma = Axis = Moon at  
Greatest Eclipse

Total Lunar Eclipse of 2015 Sep 28 Ecliptic Conjunction = Greatest Eclipse = Penumbral Magnitude = 2.2296  
Umbral Magnitude = 1.2764 Saros Series = Sun at Greatest Eclipse (Geocentric Coordinates) -0.3296 0.33750 P.  
Radius = 1.30270 U. Radius = o. 77070 137 Member = 28 81 Gamma = Axis = Moon at Greatest Eclipse  
(Geocentric Coordinates) Latitude

The lunar orbit crosses the plane of Earth's orbit in two places called nodes. Most months, the lunar orbit carries the New Moon above or below the Sun, and so there is no solar eclipse. The same is true for lunar eclipses: most months, the lunar orbit carries the Moon above or below the shadow of the Earth, and there is no lunar eclipse.

Start your day with the SUPER BLUE LUNAR ECLIPSE Wednesday, Jan. 31 | 4-6 AM Foothill College  
Observatory, next to Parking Lot 4 ASTRONOMY In partnership with the Peninsula Astronomical Society  
CONTACT Dr. Geoff Mathews, mathewsgeoff@foothill.edu. Krause for Inxnaaticm Shop 4B 4000 4100 4500 4200  
STEM Center Field

Astro110-01 Lecture 5 Eclipses of the Moon and the Sun, and other odd events Lunar eclipse Solar eclipse. (for a lunar eclipse) or a new moon (for a solar eclipse). AND 2. Suppose people on Earth are viewing a total lunar eclipse. What would you see from your home on the Moon? Explain. 1/26/09 30