Bentonville Public Library

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Solar Eclipse Bibliography

Grades K-4

"Exploring The Sun." *PowerKnowledge Earth & Space Science*, Rosen Publishing, www.pkearthandspace.com/article/472/exploring-the-sun. Accessed 27 Jun. 2017.
Accessed through BPL Student Portal: PowerKnowledge Earth & Space Science.

Summary: Solar eclipses occur when the moon passes between the Earth and the sun. These eclipses can partially block the sun or totally (The August 2017 eclipse will be a total eclipse). Total eclipses do not last more than a few minutes and occur somewhere on Earth about every year and a half.

"Earth's Cycles with Graphic Organizers." *PowerKnowledge Earth & Space Science*, Rosen Publishing, www.pkearthandspace.com/article/532/earths-cycles-with-graphic-organizers. Accessed 27 Jun. 2017.
Accessed through BPL Student Portal: PowerKnowledge Earth & Space Science.

Summary: Solar eclipses occur when the moon's shadow, as it passes between the sun and Earth, falls on the Earth blocking out the sun for several minutes. Solar eclipses only occur during new moons, and partial solar eclipses occur a few times per year at various locations.

Grades 5-6

Rickard, Lee J. "Eclipse." *World Book Student*, World Book, 2017, www.worldbookonline.com/student/article?id=ar173160. Accessed 27 June 2017.
Accessed through BPL Student Portal: World Book Student

Summary: This article highlights why solar eclipses occur and a brief history of scientific research on eclipses. Importantly, this article accounts safety procedures for viewing an eclipse: The halo surrounding the moon during a total eclipse is the sun's outer atmosphere, called a corona. Solar eclipses should only be viewed using special filters, such as eclipse glasses, which block out light to a safe viewing level. Sunglasses do not provide adequate protection during viewing. A total solar eclipse can only be viewed safely when the moon completely blocks the sun so that only the corona is present.

Grades 7-8

Bakich, Michael E. "SOLAR ECLIPSE 2017." Astronomy. 01 Aug. 2016 *eLibrary*. Web. 27 Jun. 2017.
Accessed through BPL Student Portal: eLibrary Curriculum Edition (Proquest)

Summary: This article details specifics of the August 21, 2017 eclipse, including geometry of why the eclipse will occur, where to best view the eclipse, what an eclipse pattern entails, and safety when viewing the eclipse. Viewing an eclipse without special filters causes too much radiation to reach the eye's retina possibly leading to retinal burns. Visible light also damages eye cells causing damage and possible blindness. During partial solar eclipses it is unsafe to view the sun without protective eye wear. Approved solar filters like those found in solar eclipse glasses are one of the best methods for directly viewing an eclipse. The article also includes a safety list of "10 ways to observe the sun."

"Solar eclipse: What you need to know ; Eclipses happen fairly regularly, but because most of Earth is covered by water, people rarely experience them.." *Tennessean; Nashville, Tenn.*. 05 Apr. 2017: A7. *eLibrary*. Web. 27 Jun. 2017.
Accessed through BPL Student Portal: eLibrary Curriculum Edition (Proquest)

Summary: Article is similar to previous with added description of times where eclipse will occur.

Delgadillo, Rene. "As eclipse excitement grows, so do cautions about eye safety." *St. Louis Post-Dispatch*. 12 Jun. 2017 *eLibrary*. Web. 27 Jun. 2017.
Accessed through BPL Student Portal: eLibrary Curriculum Edition (Proquest)

Summary: The article details why an eclipse can cause eye damage and how to safely view the eclipse, including eclipse glasses.

Searching “Eclipse Glasses” on this database returns over 100 different sources for users.

Grades 9-12

Eclipse 2017: NASA supports a unique opportunity for science in the shadow. (2017). *Ecn*, Retrieved from http://ezproxy.denverlibrary.org:2048/login?url=https://search.proquest.com/docview/1864804262?accountid=37073
Accessed through BPL Student Portal: Education Journals (Proquest)

Summary: Article detailing how NASA is sponsoring 11 studies during the August eclipse, including links to the studies that explore how the sun and Earth interact.

"The Great American Eclipse is 100 Days Away, and Scientists are Ready."*US Major Dailies*, May 12, 2017, http://ezproxy.denverlibrary.org:2048/login?url=https://search.proquest.com/docview/1898452525?accountid=37073.
Accessed through BPL Student Portal: Education Journals (Proquest)

Summary: Article explaining how solar astronomers will be using the August eclipse to collect scientific data on the Sun. The article also details what makes this eclipse special and different from other eclipses in the past.

Styron, Emery. "Missouri Will be Prime Viewing Spot for Summer's Solar Eclipse."*US Major Dailies*, Mar 21, 2017, http://ezproxy.denverlibrary.org:2048/login?url=https://search.proquest.com/docview/1881941458?accountid=37073.
Accessed through BPL Student Portal: Education Journals (Proquest)

Summary: Article details some of the excitement and planning leading up to August’s eclipse and why it is special for the US and the Midwest. The article also lists “A dozen eclipse dos and don’ts” including the importance of eclipse glasses.

Styron, Emery. "The August Eclipse is the 'most Spectacular Thing You'll Ever See,' especially in Missouri."*US Major Dailies*, Mar 19, 2017, http://ezproxy.denverlibrary.org:2048/login?url=https://search.proquest.com/docview/1882779898?accountid=37073.
Accessed through BPL Student Portal: Education Journals (Proquest)

Summary: Article is very similar to above with similar information.

"Eclipse." Encyclopedia. *Issues & Controversies*, Infobase Learning, http://icof.infobaselearning.com/icofencyarticle.aspx?ID=7201. Accessed 27 June 2017.
Accessed through BPL Student Portal: Issues & Controversies, Infobase Learning

Summary: Article is a detailed encyclopedia entry for eclipses.

Adult

https://eclipse2017.nasa.gov/
Summary: NASA’s official website for the 2017 eclipse including science, safety and involvement articles for the public.

https://www.space.com/
Summary: Website specializing in astronomy news and articles.

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