



## WEB RESOURCES

Find this document online at

<http://www.ncsciencefestival.org/starparty>

### TONIGHT'S SKY

#### Clear Sky Charts

<http://www.cleardarksky.com/csk>  
Will tonight's sky be clear? Find a chart for your location.

#### U.S. Naval Observatory, Astronomical Applications

<http://aa.usno.navy.mil/data>  
Rise and set times for Sun, Moon, planets—and a lot more

#### Heavens-Above.com

<http://heavens-above.com>  
Star charts for any location, date, and time—be sure to specify your observing location.

#### Stellarium

<http://www.stellarium.org>  
Download free planetarium software for your computer.

#### StarDate's Moon page

<https://stardate.org/nightsky/moon>  
Illustrations of lunar phases for a given month

#### See the International Space Station

<http://spotthestation.nasa.gov>  
When can you see the ISS? Sign up for alerts.

### STAR LIGHT, STAR BRIGHT

#### First Star I See Tonight?

<http://moreheadplanetarium.org/news/releases/wishing-on-37-year-old-starlight>  
How starlight from Arcturus opened the 1933 World's Fair

#### Which are the Nearest Stars?

<https://www.youtube.com/watch?v=vg3noqtmOLO>  
Sheldon Cooper of The Big Bang Theory explains (1-min. video).

#### Birthday Stars

<http://www.pbs.org/seeinginthedark/explore-the-sky/birthday-stars.html>  
Is there a star whose light is as old as you are?

#### Activity: Our Sun is a Star

[http://universe.nasa.gov/au/docs/sessions/Session\\_6.pdf](http://universe.nasa.gov/au/docs/sessions/Session_6.pdf)  
The Sun looks so bright because it is relatively nearby (activity on pp. 4-5).

#### Activity: Supernova Star Maps

<https://nightsky.jpl.nasa.gov/docs/SNStarMaps.pdf>  
Find stars in the night sky that will go supernova . . . eventually.

#### Activity: Why Stars Twinkle

<http://nasawavelength.org/resource/nw-000-000-003-079>  
Kinesthetic activities about why stars twinkle, what astronomers can do to minimize it, and why that matters

### VIDEO DEMOS OF 2017 STAR PARTY ACTIVITIES

The following 5 videos can also be found at  
<https://www.youtube.com/user/NightSkyNetwork>

#### Observing Cards (6-min.)

<https://www.youtube.com/watch?v=1V9nJXmrGVA>

#### Celestial Treasure Hunt (5-min.)

<https://www.youtube.com/watch?v=Xdw9xXaPeJ4>

#### Lives of Stars discussion (4-min.)

<https://www.youtube.com/watch?v=AsQ8-gJ8LOs>

#### Nuclear Fusion in Stars (5-min.)

<https://www.youtube.com/watch?v=75QWmQmrk2Y>

#### Let's Make a Supernova (5-min.)

<https://www.youtube.com/watch?v=1U5-rBq9ZH8>

Kinesthetic Lives of Stars:

#### Life Cycle of a Small Star (3-min.)

[https://www.youtube.com/watch?v=hLCo1P-\\_CvQ](https://www.youtube.com/watch?v=hLCo1P-_CvQ)

#### Life Cycle of a Large Star (4-min.)

<https://www.youtube.com/watch?v=7oydVEEUGUg>

## OTHER RESOURCES

### Night Sky Network

<http://nightsky.jpl.nasa.gov>  
Excellent activities—click “Outreach Resources”

### NASA Wavelength

<http://nasawavelength.org>  
A “full spectrum” of NASA resources for earth and space science education

### NASA’s Solar System Exploration

<http://solarsystem.nasa.gov>  
Facts, images, news, space missions

### GLOBE at Night

<http://www.globeatnight.org>  
Participate in a citizen-science campaign to measure light pollution.

### International Dark-Sky Association

<http://www.darksky.org>  
Resources and activities on light pollution

### Astronomy Picture of the Day

<http://apod.nasa.gov/apod>  
Makes a great home page

### Choosing a Telescope

<http://www.chaosastro.com>  
(click “Buying a Telescope”)  
<http://raleighastro.org/choosing-a-telescope>  
Read advice from amateur astronomers.

## GET READY: SOLAR ECLIPSE, AUGUST 21, 2017

### An Observer’s Guide to Viewing the Eclipse

<http://www.nsta.org/publications/press/extras/files/solarscience/SolarScienceInsert.pdf>  
An 8-page booklet of the basics, published by the National Science Teachers Association

### NASA’s eclipse site

<https://eclipse2017.nasa.gov>  
Science, activities, safety, event planning, and more

### American Astronomical Society eclipse site

<https://eclipse.aas.org>  
Another great source of eclipse information

### Astronomical Society of the Pacific’s eclipse page

<https://www.astrosociety.org/eclipse>  
See the Eclipse Resource Guide.

*Star light, star bright,  
The first star I see tonight;  
I wish I may, I wish I might,  
Have the wish I wish tonight.*



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