Audio problems? Click the “communicate” button at the top of your screen. Then click “test audio.”

Can you see the video feed? If not, please click “Participants” at the top right.

Crowd-pleasing Hands-on Activities for Your Eclipse Programs

April 26, 2017
Join the *STAR_Net* Community!

www.starnetlibraries.org/register

- *STAR_Net* News
- Blogs
- Forums
- Webinars/Conferences
Why Do Eclipses Happen? (Yardstick Eclipse...)

Using simple materials, participants explore the vast distance between the Earth and Moon and model how solar and lunar eclipses happen.

Open Activity

Content Area
Astronomy and Space

Age Group
Family
Upper Elementary
Tweens (9-12)
Teens
Adults

Time to Complete Activity
20-40 minutes

Cost associated with Activity Materials
$5-$10

Difficulty Level (by content)
Medium

How-to Video

View Details
Join 2,100+ Libraries in Celebrating the Solar Eclipse!

www.starnetlibraries.org/2017eclipse
How Far?
• 1" “Earth” ball
• ¼" “Moon” bead

...30 inches apart
Modeling Meaningful Eclipses (Yardstick Eclipse Demonstration)
How Can the Little Moon Hide the Giant Sun?
Sorting Games: How Big? How Far? How Hot?

- Sort the images in groups
How Big? Card Set: Smallest to Largest

1. Lions
2. International Space Station
3. Asteroid Ida
4. Moon
5. Mars
6. Earth
7. Jupiter
8. Sun
9. Solar System
10. Galaxy
11. Cluster of Galaxies
Incorporate Technology!

DIY Sun App
Have fun investigating the Sun! Conduct hands-on activities using common household items, explore photos and videos from NASA, and view live images of the Sun.

Activities

Any Day Activities

- **Sun Cookies**
  Can you make a model of the Sun that's good enough to eat?

- **Big Sun, Small Moon?**
  Why do the Sun and Moon look like they're the same size in the sky?

- **Solar Convection**
  What causes solar granules on the Sun?

- **Hot Equator, Cold Poles**
  Why is Ecuador so hot and Antarctica so cold?

- **Solar Flare Flip Book**
  What does the Sun look like over time?

- **Model the Sun and Earth**
  How big is the Sun compared with Earth?

- **Detect Solar Storms**
  How can you detect solar storms from here on Earth?

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Sun Cookies

- Sugar sprinkles: gas rising up from the Sun's core make Texas-sized features on the Sun called solar granules.
Sun Cookies

- Candy pieces: cooler areas of the Sun appear as darker sun spots. Sun spots come in pairs, so add the candy pieces two at a time!
Sun Cookies

- Licorice strands: hot gas erupts from the Sun in looping arcs called solar prominences.
Incorporate Technology!

SciGames.org
Solar Vision

Explore!

H-Alpha
This is a particular frequency of red light that's good for seeing activity just above the photosphere... more

Find the Features
Intro

X-Ray
Mag
Ha
Euv
Vis

Click and Drag

Max
Mid
Min

Space Weather Center

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THE GREAT ESCAPE

START OVER

PHOTONS LOSE ENERGY ON THE

163,998 years

Check out the app for Android and iOS at www.scigames.org/apps
Thank you! Keep in Touch!

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