

# SOLAR ORIGAMI

Links, Videos, and more at: [carbondalepubliclibrary.org/png](http://carbondalepubliclibrary.org/png)

*Straight from NASA! Solve the stumpers of space science with solar origami!*

Your kit contains a variety of paper types to make all the designs in the ORIGAMI UNIVERSE booklet. Note that different designs recommend different paper types:

- LUCKY STARS = wrapping paper
- SOLAR ARRAY = copy paper
- SPACE TELESCOPE = origami paper
- SUNSHADE = square copy paper

There's also a large, 11x17 template for a starshade.

TIP: Use the protractor from last week as a bone folder, a tool for creasing and folding in papercraft.

## MAKE A SQUARE FROM A RECTANGLE:

1. Position the paper portrait-style (long way)
2. Fold down one top corner to meet the opposite edge, forming a triangle.
3. Cut the excess paper below the triangle.

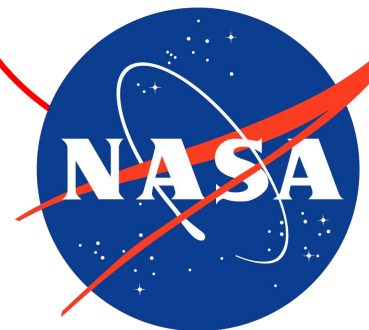
## HOW-TOS:

- **Origami Universe**  
<https://chandra.si.edu/origami/>
- **Space Origami: Make Your Own Starshade**  
<https://www.jpl.nasa.gov/edu/learn/project/space-origami-make-your-own-starshade/>

## VIDEOS & ARTICLES:

- **Crazy Engineering: Starshade/Coronagraph**  
<https://www.youtube.com/watch?v=ALGI0ex0-ac>
- **Origami in Orbit: Ancient Art Inspires Efficient Spacecraft**  
<https://www.space.com/38787-origami-inspires-compact-space-equipment.html>
- **From Robots To Retinas: 9 Amazing Origami Applications**  
<https://www.popsci.com/article/science/robots-retinas-9-amazing-origami-applications/>
- **The Atomic Theory of Origami**  
<https://www.quantamagazine.org/the-atomic-theory-of-origami-20171031/>

Also check out these  
awesome  
NASA games!  
[spaceplace.nasa.gov/](http://spaceplace.nasa.gov/)





# LIVE MEETINGS IN DISCORD



Don't miss our meetings in Discord! Live demonstrations and live fun!

**MONDAYS & WEDNESDAYS, 3-4 PM**

when Summer PNG is in session (June 7-30 and July 12 - August 4)

To join the meetings, you need to be a part of the **CPL PNG Discord server**.

Friend request PNG Director Liz:

**MisLiz#6234**

**HAVEN'T SET UP A DISCORD ACCOUNT YET? VISIT**

**[carbondalepubliclibrary.org/discord](https://carbondalepubliclibrary.org/discord)**

for information and instructions

*(We also have a limited number of "dummy" accounts available. Email Liz to get a login.)*

**QUESTIONS? NEED HELP?** [ehartman@carbondale.lib.il.us](mailto:ehartman@carbondale.lib.il.us)