

Janessa Slone and the Wooden Orbital Model (SOCK 2022)

Janessa puts on her S.O.C.K.s

Janessa Slone

SPS SOCK Intern / Embry-Riddle Aeronautical University (Prescott)

Brad Conrad

SPS and $\Sigma\Pi\Sigma$ Director / American Institute of Physics

Mikayla Cleaver

SPS Programs Coordinator / American Institute of Physics



Who am I?

Janessa Slone

- Senior at Embry-Riddle Aeronautical University
- Previously funded by AZ NASA
 Space Grant Consortium
- Active SPS Member
 - SPS SOCK Intern
 - SPS AZC (2 terms)
 - SPS Chapter President (2 terms)

This Summer, I worked on ...

Astronomy on the Mall

50,000 person outreach event on the National Mall

Demonstration Library

New demos uploaded to various platforms

Physics and Astronomy Jeopardy

Astronomy focused!

S.O.C.K

Science Outreach
Catalyst Kit for
chapters' outreach
programs



Astronomy on the Mall

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SPS Interns at Astronomy on the Mall

Astronomy on the Mall

Planning

Organizing

Presenting

Research demos, purchase supplies, logistics Develop and tested, perform each demo, volunteers Sharing our passion for Science with future generations





Janessa Slone performing the Cloud in a Bottle Demo

O2 Demonstration Library

7 New Demos

Added to the SPS Demonstration Library

Electromagnet

Jolly Rancher Bubbles

Cloud in a Bottle

Fireworks in a Glass

Laminar Flow

Smoke Cannon

Metal Resonance



Videos on Social Platforms

VORTEX CANNON SISS NATIONAL 0:33	Vortex Cannon! Find out how to make your own vortex cannon here :	Scheduled
WOODEN ORBEGAL MODEL 0:57	How To: Wooden Orbital Model (SOCK) This is a quick demonstration showing the orbits of the Earth and Moon! Order your	Scheduled
FIREWORKS IN A GLASS 0:34	How To: Fireworks in a Glass Create beautiful 'fireworks' in this amazing density demo! This demonstration can be	Scheduled
CLOUD IN A BOTTLE 0:30	How To: Cloud in a Bottle Learn how to make a Cloud in a Bottle in a few easy steps! This demonstration can b	Scheduled
ELECTRUMAGNET 1:03	How To: Electromagnet Learn how to make 2 versions of an Electromagnet. This demonstration can	Public



O3 Physics and Astronomy Jeopardy



Astronomy Theme

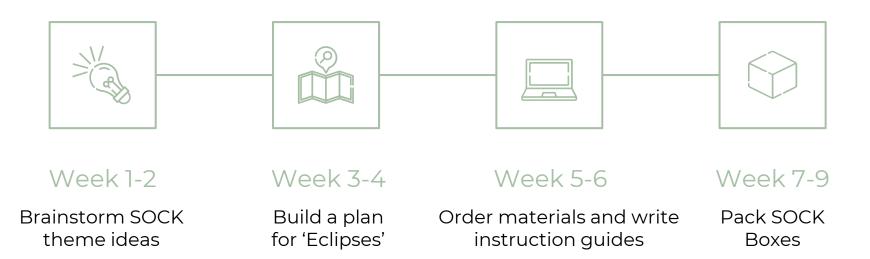
- Revamped questions
 - Astronomy
- New categories
 - Alphabet Soup
 - Equations
 - Planets & Stars
 - Relativity
 - General
 - Miscellaneous





04 S.O.C.K.

SOCK timeline



Components of the S.O.C.K.

- Wooden Orbital Model
- Scale the Solar System Demo
- Paper Model Demo
- Solar Eclipse Glasses
- Brass Brads
- Pinhole Viewer
- Presentation guides
- Thumbdrive:
 - Paper Model Template
 - Safety Guide
 - o Instructions for each demo
 - Presentation Guides



Thanks!

Janessa Slone Embry-Riddle Aeronautical University B.S Space Physics and Minor in Computer Science

jslone@aip.org slonej1@my.erau.edu (805) 814-5511