

Level	Step	Badge Activity	Workshop Activity	Note	
Daisy	1, Explore the Sun	Make a day sky book	Observing the Evening Sky (Pre-Workshop)		
		Make a pinhole projector	Observing the Sun Safely	We will be adding a shadow activity	
	2, Observe the Moon	Make a Moon sky book	Observing the Evening Sky (Pre-Workshop)		
			What to Put into Your Telescope Observing Logbook		
			Observing Sheet		
None	Real-Life Space Scientists	Women in Astronomy, Women on Moon Word Search	Plus related handouts		
3, Meet the stars	Make a star pattern	Constellation Transformation			
Brownie	1. Meet the neighbors	Create picture of our planets	Size Models: Diameters and Distances of Planets		
		Make a pocket Solar System	Size Models: Diameters and Distances of Planets		
	2. See more than before	Use a telescope or binoculars	Binoculars and Telescopes; evening observing	We do not build a telescope	
		See stars with a computer	Much of first evening discussion		
	3. Investigate the Moon	Model the Moon	Thinking in 3-D; Earth/Moon Comparisons		
		Meet the Moon phases	Thinking in 3-D	Have other Moon phase related activities, if interested	
	4. Be a stargazer	Make a constellation viewer	Constellation Viewers		
		Tell a star story	Nancy's Favorite Sky Stories		
		Change a constellation	Constellation Transformation		
	None	Meet Some Space Scientists	Women in Astronomy	Plus related handouts	
	5. Celebrate and share	Hold a star party, etc.	Teaching Astronomy in a Out of the Classroom; Event Plan	Other discussions during the day/night	
	Juniors	1. Model the Solar System	Make models of the planets	Worlds in Comparison	Ours is a little harder to do, but more accurate
			Find a scale model Eath-Moon	Earth/Moon Comparisons	
			Take a Solar System Walk	Size Models: Macrame; Exploring Unknown Worlds	
		2. Circle the Sun	Dance the Earth's year	Tabletop/Human Orrery	Really simplified version
3. Discover the stars		Make a 3-D constellation	Zodiacal Constellaton Star Distances	Used to do 3-D, but WE found it difficult to get right	
				If interested, please let us know	
		Create your "Girl Scout Minute"	Macrame Solar System	Just added in May, needs work	
		Go on a night sky hunt	Evening observing		
4. Use tools to explore		Be a mission specialist		If interested, please let us know	
		Make a Mars rover	Designing Robotic Vehicles		
	Using tools for finding your way	Make a Star Wheel [and use planisphere]			
5. Share your sky		Same as Brownies			
Cadette	1. What more can you see?		Nature of Light activities		
		Make a Sun print	Nature of Light activities	If time, we have done the Sun prints	
		Detect Infrared signals	Nature of Light activities		
		Explore more than eye can see		Have not done this	
	3. See stars in a new way	Be an astrophotographer	Both of these discussed during observing sessions		
		Observe with NASA	and also at the 61-inch		
		Classify the stars	Constellation Classification Cards		
	4. Expand your vision	Be a night sky observer	Observing sessions		

		Find a dark sky	Observing sessions	
		Observe with a telescope	Observing sessions	
	5. Conserve the night sky	Become a citizen scientist	Nothing specific for this Step	Citizen Science may be in our proposal renewal
		Look at light with new eyes		If interested in more about light pollution activities,
		Make a change		please let us know
Senior	1. Uncover stuff made of	See how eyes react to light	Night adaption discussion start of observing sessions	
	2. Explore brilliance of stars	Play a game		Not one of our activities
		Go on a nighttime hunt	Observing sessions	
	3. Discover telescopes	Compare eyes to telescope	Comes up with macrame Solar System (see Sun)	If interested in such an activity please let us know
		Discover why telescopes powerful	My What Big Eyes; Mirror Lab	
	4. Find light in darkness	Explore standard candles		No explicit activity, but discussed in general
		Join citizen science movement	Nothing specific for this Step	Citizen Science may be in our proposal renewal
		Discover "shifting stars"	Part of Orrery activity	Let us know if want a dedicated activity
	5. Share your knowledge		In discussions throughout Workshop	
Amdassador	1. Discover worlds beyond Earth	Design a habitat	Designing Robotic Vehicles	We have done a similar activity for habitats
		Explore new worlds	Exploring Unknown Worlds	
	2. Dive into NASA science		Nothing specific for this Step	
	none	Women in STEM	Women in Astronomy	
	3. Explore your interests	Discover citizen science	Nothing specific for this Step	Citizen Science may be in our proposal renewal
		Use a telescope remotely	In discussions throughout Workshop	
		Build a telescope	Nothing specific for this Step	
	4. Dig deeper		In discussions throughout Workshop	
	5. Share what you've learned		Nothing specific for this Step, but sometimes discussed	