

**Girl Scout Leaders' Workshop in Hands-on Astronomy**  
**November 1–3, 2019**  
**Table of Contents**

<b>Section</b>	<b>Title</b>	<b>Notebook</b>	<b>Flash Drive</b>	<b>Badge?</b>	
<b>0</b>	Guest Astronomers and Astronomy Camp Staff	X	X		
	Table of Contents	X	X		
	Badge Activity Descriptions	X	X		
	Schedule (Participants and Agenda)	X	X		
	What is Twilight	X	X		
<b>1</b>	Learning Outcomes	X	X		
	NGSS Framework (Framework for K-12 Science Ed.)	X	X		
<b>2</b>	Women in Astronomy	X	X	All	
	Astronomy Word Search	X	X		
	Mercury Crater Word Search V1	X	X		
	Mercury Crater Word Search V2		X		
	Women of the Moon, Women in Science	X	X	All	
	Women of the Moon Map Nearside and Farside	X	X	All	
<b>3</b>	What's in a Name? (Cover Sheet)	X	X		
	What's in a Name? Cards		X		
	Evening Sky Map November 2019	X	X		
	Daily Predictions for Brighter Satellites	X	X		
	Make a Star Wheel	X	X	J	
	Teaching Astronomy in and Out of Classroom	X	X	B, J	
	Astronomy Event Plan	X	X	B, J	
	What to Put into Your Telescope Observing Logbook	X	X	D	
	Observing Sheet	X	X	D	
	Observing Messier Objects: Comments		X		
	How to Choose Your First Telescope	X	X	B	
	Nancy's Favorite Sky Stories	X	X	B, J	
	Tabletop Orrery Directions	X	X	J	
	Tabletop Orrery Full Size		X		
	Zodiacal Constellation Star Distances	X	X	J	
	Astrology Defense		X		
	Activities Astrology		X		
	<b>4</b>	Thinking in 3-D: Phases of the Moon	X	X	B
		Earth-Moon Comparisons	X	X	J
		Earth-Moon Comparisons, Part 2	X	X	J
Size Models Diameters and Distances of the Planets		X	X	B, J, S	
Worlds in Comparison Updated (Clay Models of SS)		X	X	B, J	
Creating Solar System Scale Models		X	X	J	
Observing the Sun Handout		X	X	D	
<b>5</b>	Classifying SS Objects	X	X	J	
	Classifying SS Objects Handout	X	X	J	

Section	Title	Notebook	Flash Drive	Badge?
	Classifying SS Objects PowerPoint		X	J
	Beyond the Rainbow Astronomy		X	C
	Spectra Comparison Chart NSTA	X	X	C
	Electromagnetic Spectrum	X	X	C
	Film Canister Spectrometer		X	
	CD Spectrometer		X	
<b>6</b>	Exploring Unknown Worlds	X	X	J, A
	Exploring Unknown Worlds Handout (and ppt)	X	X	J, A
	Constellation Viewers	X	X	B
	Constellation Viewers Images	X	X	B
	Constellation Classification Cards	X	X	C
	Constellation Card Folder		X	C
	Exoplanets	X	X	
	Extra Solar Planets Activity	X	X	
	Exoplanet Cards		X	
<b>7</b>	Galaxy Classification Cards Group Info Sheet	X	X	
	Galaxy Classification Cards for Printing		X	
	Girl Scout Mini-kit Description	X	X	
	Meteorite Kit Training Vocabulary	X	X	
	Meteorite Minikit Presentation (on Mountain)	X	X	
<b>8</b>	<b>Explore on your own</b>			
	My What Big Eyes You Have Handout	X	X	S
	My What Big Eyes You Have	X	X	S
	Designing Robotic Vehicles: Exploration Vehicles		X	J, A
	Astronomy in Advertising	X	X	
	Constellation Transformation	X	X	D, B
	What's Inside: Density Activities	X	X	
	Nearest and Brightest Stars	X	X	
	Nearest and Brightest Stars (Copies of Stars)		X	
	Survey of Girl Scout Leaders November 2019	X		
	<b>Additional Files</b>			
	Day and Night Rotation and Revolution		X	
	What's in a Name Key		X	
	What's in a Name Mix Key			
	Lookback Introductory Activity		X	J
	Lookback Time in Our Everyday Lives the Basics		X	
	Lookback Time in Our Everyday Lives		X	
	Thousand Yard SS, Earth as Peppercorn		X	B, J
	Moons of Jupiter		X	
	Moons of Jupiter ppt		X	