

International Observe the Moon Night (InOMN)

International Observe the Moon Night (InOMN pronounced eye-nom) is a world-wide celebration of our nearest celestial neighbor, the Moon! Each year in the fall, millions of people from around the world come together to view the Moon! Learn about its diverse roles in culture, history, science, and exploration.

To earn this patch, please complete the following:

- **Daisy:** Complete 3 of the following activities
- **Brownie:** Complete 3 of the following activities
- **Junior:** Complete 5 of the following activities
- **Cadette:** Complete 7 of the following activities
- **Senior:** Complete 7 of the following activities
- **Ambassador:** Complete 7 of the following activities

Patches will be available in the Girl Scout Shop after October 12.

Activity Options:

- Make a Moon Observation Journal and sketch the moon with a few notes such as moon rise and what you see including background stars. Make at least 4 observations.
- Research stories about the moon and share one with a family or friend.
- Complete the Women Scientist of the Moon Word Search. The Word Search is attached in this packet.
- Write a poem about the Moon.
- Nearly 70 craters on the moon are named after women. Research and locate 2 of the craters and label them on the moon map that is attached.
- Write a story about what you see in the moon and then draw a picture on the attached worksheet.
- Try the Phases of the Moon Oreo activity.
- Research 3 women astronomers and find out what she contributed to the world of astronomy.
- Find out why we only see one side of the Moon.
- Take fun pictures of the moon. Some examples are below:



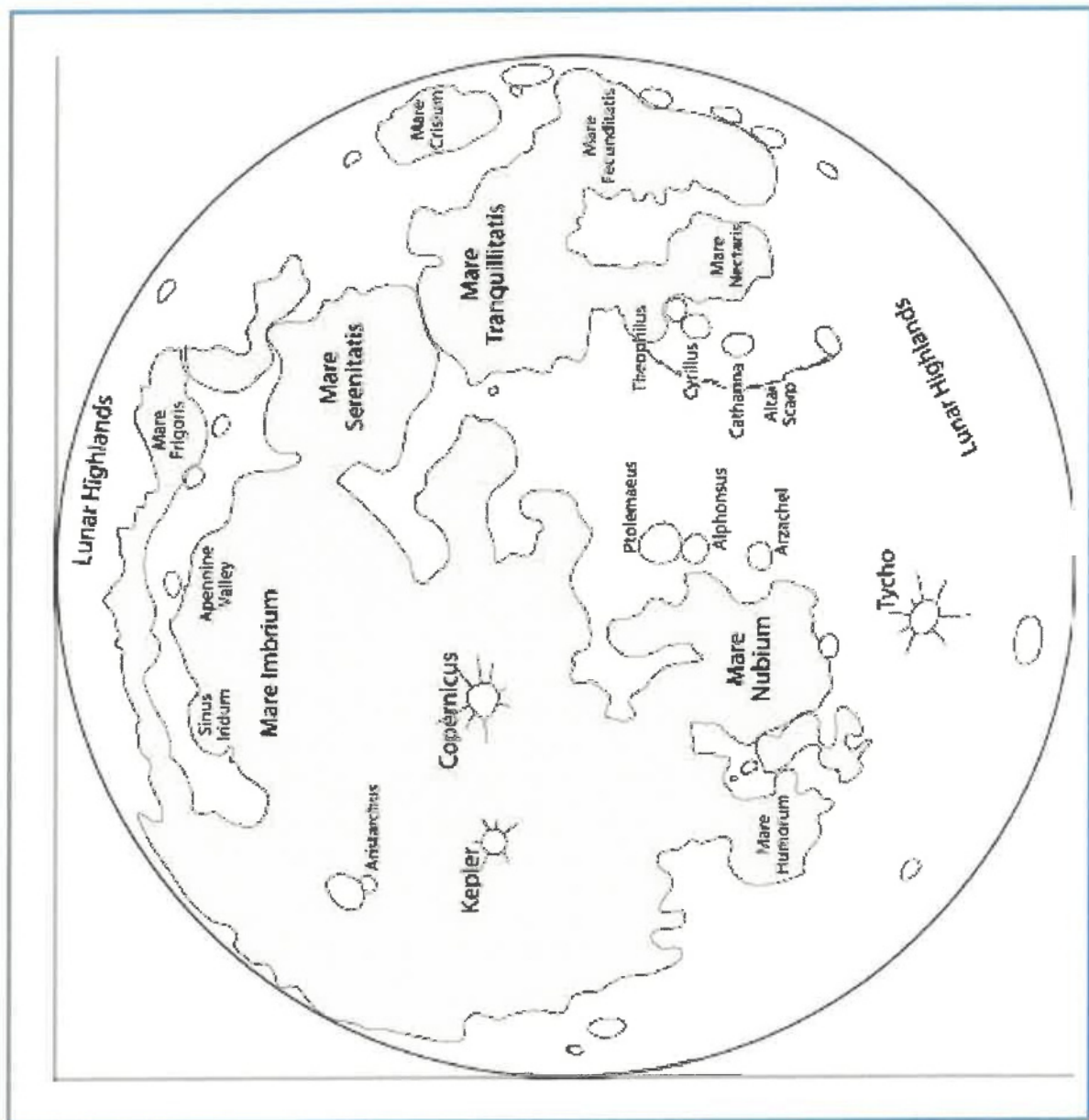
WOMEN SCIENTISTS ON THE MOON: WORD SEARCH PUZZLE

180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180				
90	N	B	Q	G	K	J	E	K	Y	W	V	C	A	I	F	K	P	G	F	I	F	S	D	A	S	I	Y	U	M	J	I	E	Z	F	U	Y	Q			
80	I	X	Z	B	R	E	S	E	T	Y	I	S	M	B	V	R	O	W	C	C	I	C	Y	U	F	R	K	Z	H	I	F	O	X	K	A	M	V			
70	O	G	K	Q	W	H	X	C	K	S	J	E	Z	W	E	Z	V	V	F	J	P	G	Z	V	G	P	H	W	S	N	N	T	N	G	L	W	70			
60	T	E	S	N	S	A	Z	N	O	E	T	H	E	R	A	U	K	Q	S	M	O	W	T	J	Q	X	L	M	P	I	R	O	N	O	S	R	G	60		
50	F	H	D	O	E	J	Y	R	D	W	X	P	Y	X	N	I	T	R	G	S	H	E	E	P	S	H	A	N	K	S	I	P	O	C	V	R	X	50		
40	R	K	J	U	F	F	H	K	K	L	E	H	C	S	R	E	H	V	A	A	L	Q	M	A	U	R	L	T	Q	O	Y	H	A	L	N	C	P	H	U	40
30	W	Z	U	K	I	T	O	W	O	J	T	G	X	L	J	B	I	Y	P	K	C	H	M	T	M	V	G	J	S	B	R	R	I	U	F	F	L	30		
20	Y	G	W	I	L	I	V	L	I	T	E	U	Z	G	P	E	N	M	S	U	Y	K	N	O	N	A	C	L	F	D	J	I	E	R	T	A	E	20		
10	M	C	I	N	U	I	A	P	A	M	A	C	A	Y	E	C	U	R	B	Q	H	M	Q	B	S	J	Y	K	L	G	E	C	R	P	H	N	K	10		
0	A	V	B	S	A	V	L	D	L	M	R	D	U	P	E	A	A	P	I	L	C	V	L	D	O	E	D	C	E	M	W	O	E	E	D	W	O	0		
20	S	B	N	E	C	A	E	O	F	A	B	V	K	O	E	X	O	J	B	Y	A	Z	P	N	M	N	A	U	M	W	Y	S	S	G	Z	D	A	20		
30	L	X	O	R	M	E	V	C	U	U	D	T	W	R	G	L	K	N	L	W	T	G	K	C	I	K	X	R	I	B	Q	A	H	Y	R	I	M	30		
40	D	L	R	K	M	L	S	Q	G	N	Q	N	R	O	T	C	O	R	P	J	H	E	G	W	R	I	B	I	N	S	K	P	K	I	N	J	I	40		
50	U	P	M	C	A	I	K	B	S	D	Z	O	R	D	L	J	E	R	P	R	A	U	Y	H	I	N	L	E	G	K	E	P	O	L	J	Q	V	50		
60	Q	Y	O	P	I	U	A	N	M	E	U	B	U	Q	C	F	L	Z	O	H	R	L	V	X	I	S	U	M	K	H	M	H	V	Z	P	U	I	60		
70	J	R	O	V	T	F	Y	M	N	R	H	F	C	T	D	W	B	D	N	D	I	B	F	E	L	V	E	X	Q	C	F	O	A	R	S	I	Z	70		
80	I	A	Z	C	X	R	A	V	P	L	O	L	H	E	H	S	U	H	X	R	N	X	S	E	L	X	Z	H	O	W	C	C	B	N	Y	D	O	80		
90	P	T	L	Y	D	C	H	B	J	G	P	I	M	S	Q	M	X	J	Z	N	A	A	O	B	E	I	V	J	J	Z	I	U	I	A	I	O	P	90		

- | | | | |
|---------------|------------------|---------------|----------------|
| 3. Blagg | 8. Curie* | 15. Leavitt | 22. Noether |
| 6. Bok | 9. Fleming | 16. Lepaute | 23. Proctor |
| 9. Bruce | 10. Herschel | 17. Maunder | 24. Resnik |
| 12. Cannon | 11. Hypatia | 18. Maury | 25. Sappho*** |
| 15. Catherine | 12. Jenkins | 19. McAuliffe | 26. Sheepshank |
| 18. Clerke | 13. Joliot | 20. Meiner | 27. Somerville |
| 21. Cori | 14. Kovalevskaya | 21. Mitchell | 28. Tereshkova |

l. crater name maiden name, Sklodowska; **Full last name is Joliot-Curie, but crater named after her husband; ***Name not officially accepted









Moon Map / Viewing Guide



What I See in the Moon



A long time ago ... _____

1	2	3
 <p>New Moon Completely (or almost completely) dark.</p>	 <p>Waxing Crescent A small sliver of light on the right.</p>	 <p>First Quarter (or Half) Moon The right half of the Moon is light.</p>
4	5	6
 <p>Waxing Gibbous Three quarters of the right side of the Moon is light. The light is in the shape of a humpback (which is what the word "gibbous" means!)</p>	 <p>Full Moon The entire Moon is bright.</p>	 <p>Waning Gibbous Three quarters of the <i>left</i> side of the Moon is light.</p>
7	8	<p>Modified from <u>Paper Plate Education</u> Copyright ©2006 <u>Chuck Bueter</u> All rights reserved.</p>
 <p>Third Quarter (also Half) Moon The <i>left</i> half of the Moon is now light.</p>	 <p>Waning Crescent A small sliver of light now appears on the <i>left</i> side.</p>	

Materials needed:
8 Oreo® cookies (4 for younger children)
Paper towel
A plastic spoon and/or a plastic knife
Marker (optional)

Halve and scrape Oreo® cookies to illustrate Moon phases. Then arrange cookies on the poster in linear fashion beginning with the New Moon and ending with the Waning Crescent Moon.