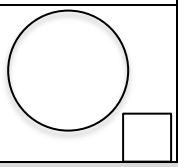
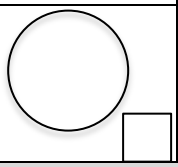
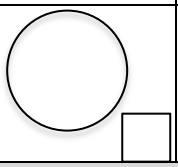
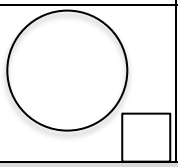
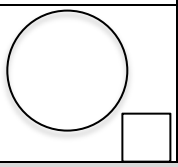
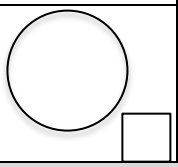
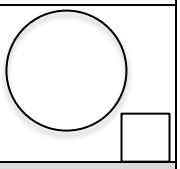
Lunar Calendar

Month: _____ Name: _____

Each night you go moon watching, record your observations on this lunar calendar.

Write down the date and the time. Write down what you observe about the appearance of the sky and the weather conditions of the night. Is it raining? Snowing? Cloudy? Clear? Can you see stars?

Next, fill in the part of the moon that is unlit and have the lit up part of the moon remain white. Use two or three letter code in corner of each calendar box. (NM~New Moon, WC~Waxing Crescent, FQ~First Quarter, WG~Waxing Gibbous, FM~Full Moon, WNG~Waning Gibbous, LQ~Last Quarter, WNC~Waning Crescent)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Date:	Date:	Date:	Date:	Date:	Date:	Date:
Time:	Time:	Time:	Time:	Time:	Time:	Time:
Sky Observations:	Sky Observations:	Sky Observations:	Sky Observations:	Sky Observations:	Sky Observations:	Sky Observations:
						
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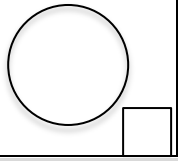	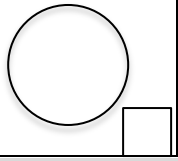	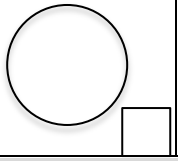	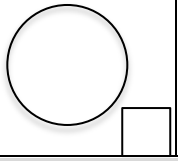	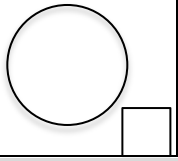	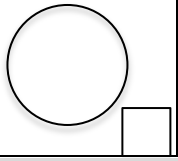	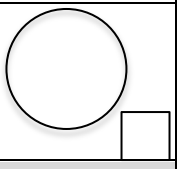
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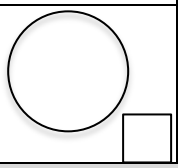
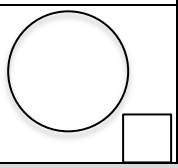
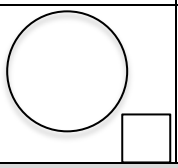
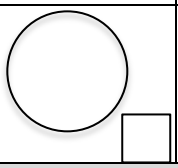
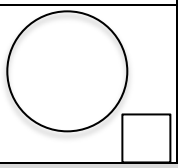
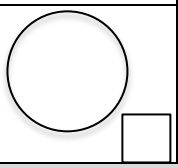
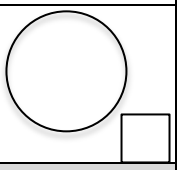
Sky Observations:	Sky Observations:	Sky Observations:	Sky Observations:	Sky Observations:	Sky Observations:	Sky Observations:
						
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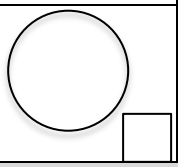	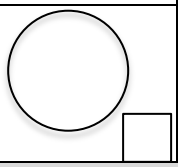	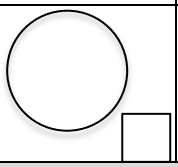	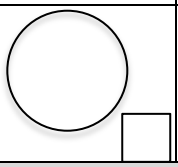	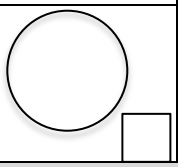	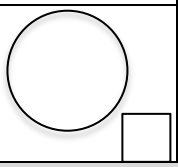	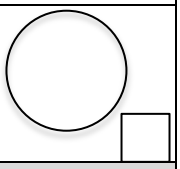
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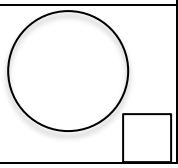
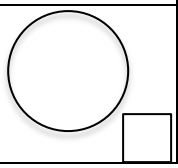
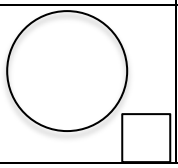
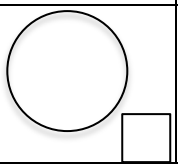
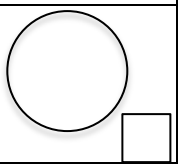
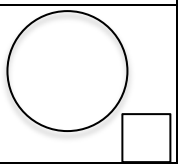
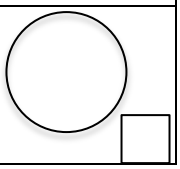
Sky Observations:	Sky Observations:	Sky Observations:	Sky Observations:	Sky Observations:	Sky Observations:	Sky Observations:
						

Using the data you have gathered, answer the following questions.

1. How did the Moon change during the time observed? (Position? Shape?)

_____

_____

_____

2. What exactly is changing—is the Moon really getting bigger and smaller? How can you tell?

_____

_____

_____

3. How do the positions of the earth, moon, and sun create the appearance of the moon's phases? Explain what you observed.

_____

_____

_____

_____

_____

Graphing Phases of the Moon

How many days is it between Moon phases? Using the dates from your monthly observations, complete the table below showing how many days the Moon stays in each phase. When you are done, make a bar graph showing the information in your table.

Dates

September 1st - 4th - _____ (list the phase that you drew on your monthly calendar)

September 5th - _____

September 6th – 12th - _____

September 13th - _____

September 14th – 20th - _____

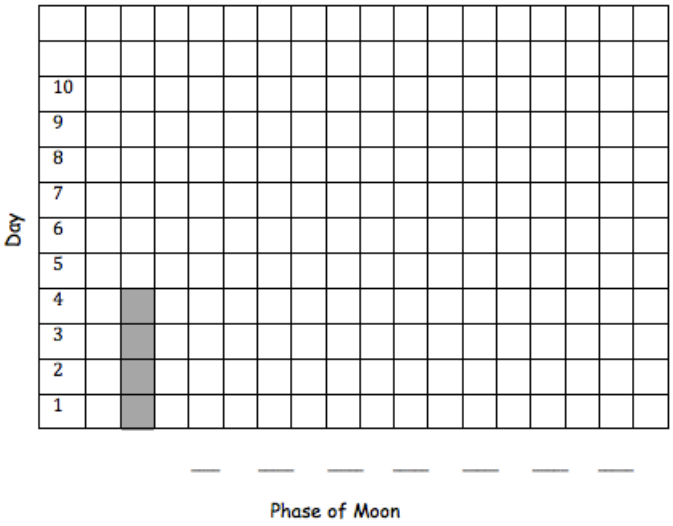
September 21st - _____

September 22nd – 26th - _____

September 27th - _____

September 28th – 31st - _____

Using the information above, complete the table below.

Phase of Moon	Number of Days

Using the information in the table, make a bar graph. Label the moon phase.