

Name _____ Date _____ Period _____

Moon Madness Webquest

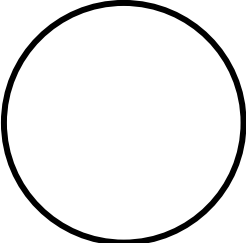
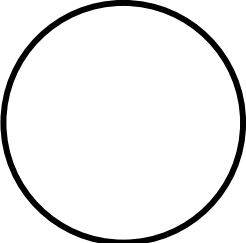
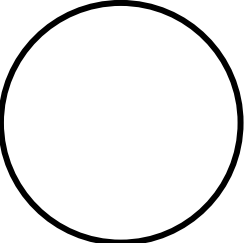
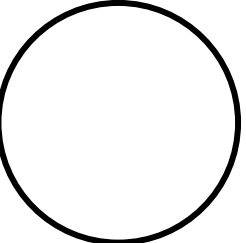
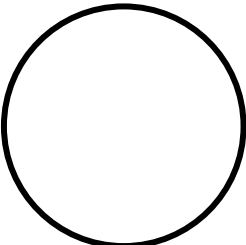
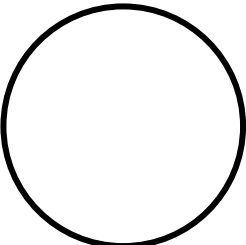
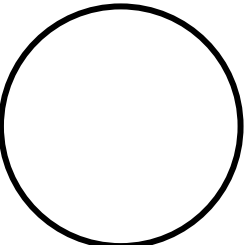
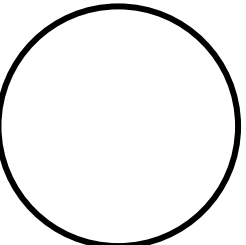
Use thesciencequeen.net website - click students>astronomy>Moon Madness for the links.

Part 1 Moon Phases

PBS Moon

1. Why does our moon have different phases every day?

There are eight phases of the Moon. In the top of each square, write the phase and fill in the circle to show the appearance of the Moon at that phase.

2. Define the following terms...

Gibbous: _____

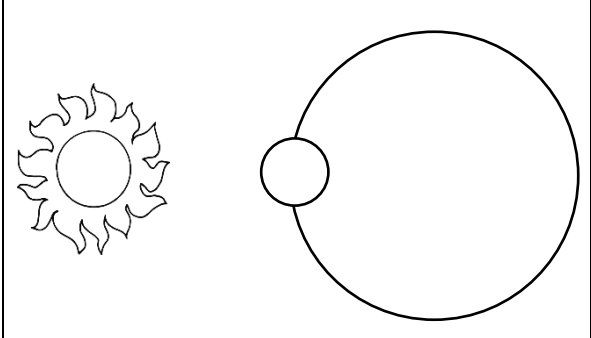
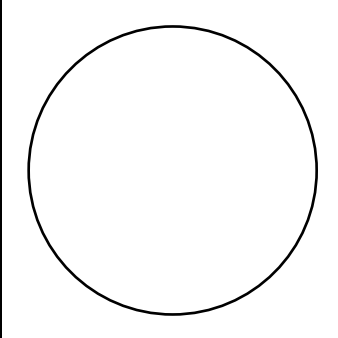
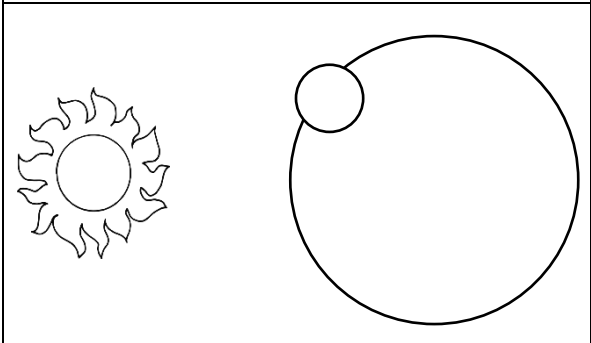
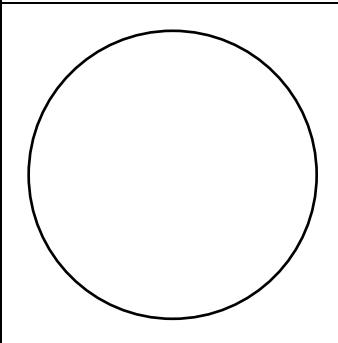
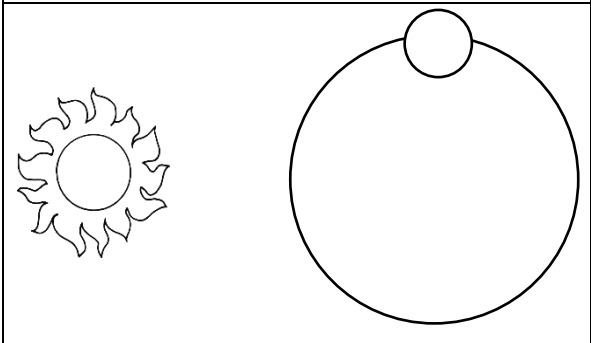
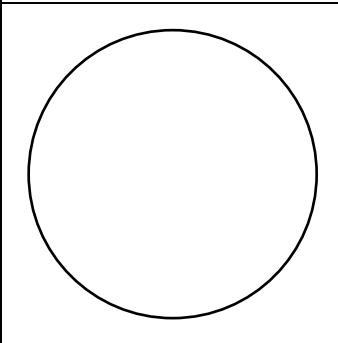
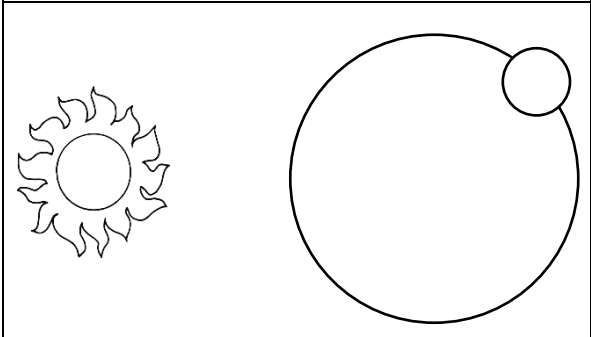
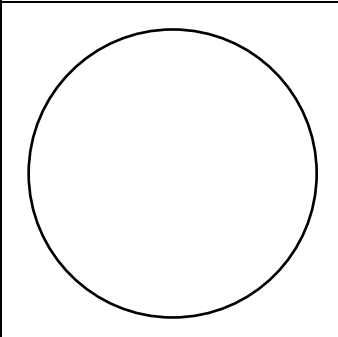
Waxing - _____

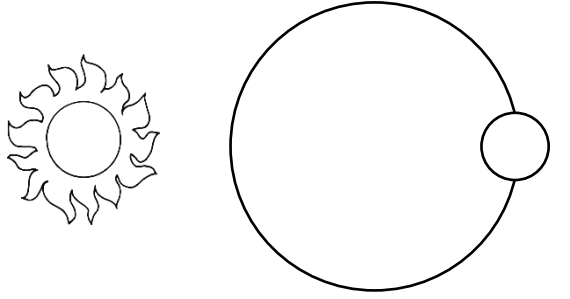
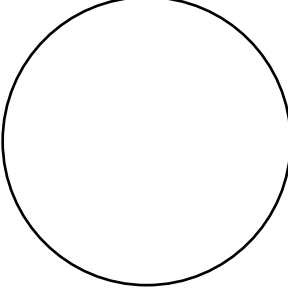
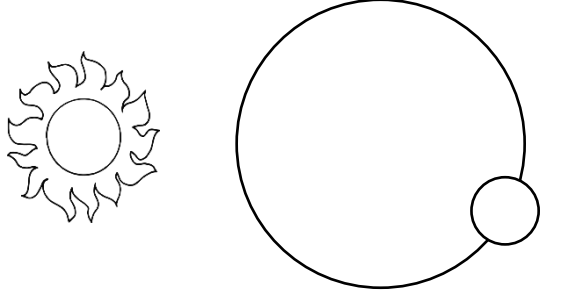
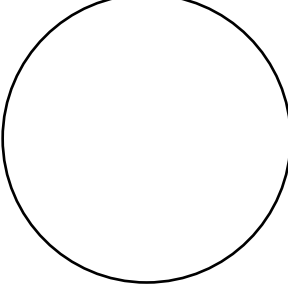
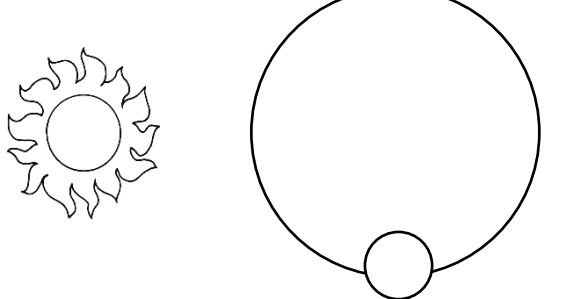
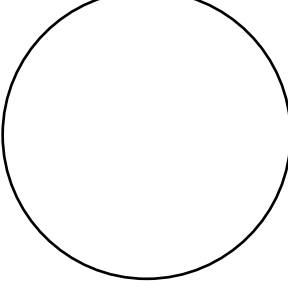
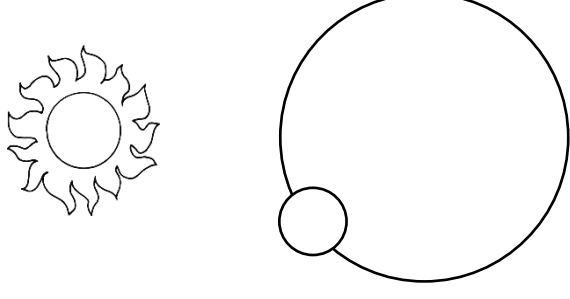
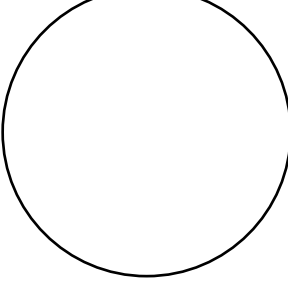
Waning - _____



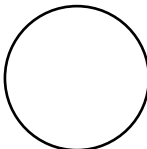
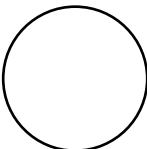
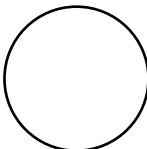
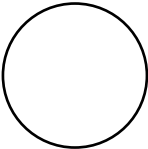
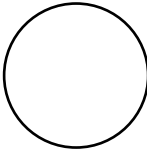
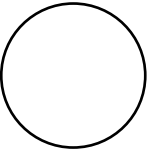
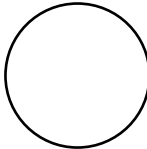
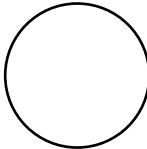
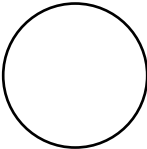
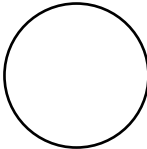
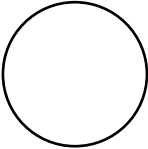
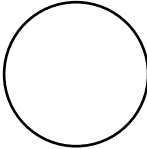
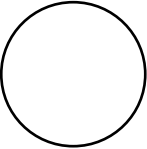
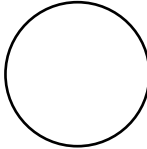
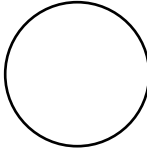
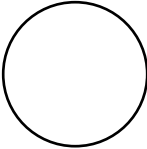
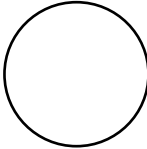
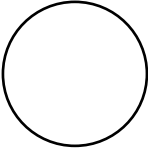
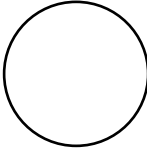
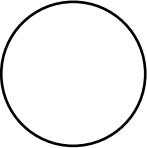
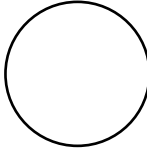
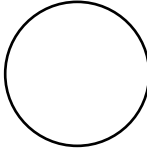
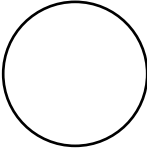
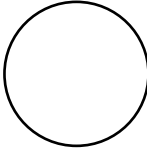
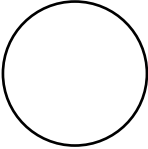
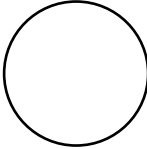
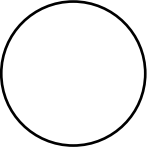
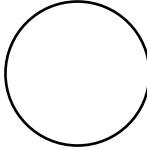
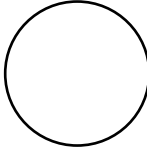
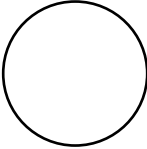
3. Identify the Moon's phase based on its position.

4.

<i>Diagram</i>	<i>Phase</i>
	
	
	
	

<i>Diagram</i>	<i>Phase</i>
	
	
	
	

5. Complete the table on page three showing the phase of the Moon each day during March 2018
 Fill out the following: Moon Phases for March 2018 - Website: Moon Phases Calendar

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
4	5	6	7	8	9	10
						
11	12	13	14	15	16	17
						
18	19	20	21	22	23	24
						
25	26	27	28	29	30	
						



Using the calendar, answer the following questions.

6. Identify the day(s) the Moon's phase is a waxing crescent.

7. Identify the day(s) the Moon's phase is gibbous.

8. Identify the day the Moon's phase is full.

9. Identify the day(s) the Moon's phase is a waning crescent.

10. Identify the day the Moon's phase is new.

11. As the Moon changes appearance during the month, it follows a pattern, Describe the pattern.

Part 2: Eclipses

Website: Lunar Eclipses

12. What is the only lunar (moon phase) phase in which a lunar eclipse can occur?

13. Sketch the moon, sun and earth during a lunar eclipse:



14. Why don't we have a lunar eclipse during every **full moon**?

15. On average, how many total lunar eclipses are there every year?

16. Why does the Moon appear to take on a colored hue during an eclipse?

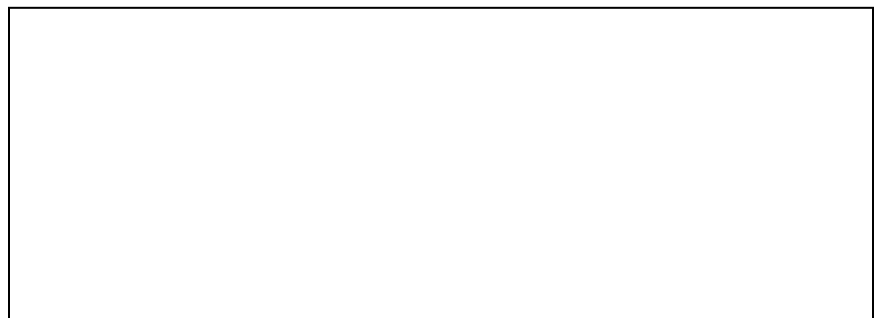
17. What are the three different kinds of lunar eclipses?

18. The Moon's shadow consists of two parts, what are they?

Website: Solar Eclipse

19. What is the only lunar phase in which a solar eclipse can occur?

20. Sketch the moon, sun and earth during a **solar** eclipse:



21. What are the three different kinds of solar eclipses?

22. Why don't we see a solar eclipse during every new moon?

23. How long does the total phase of a total solar eclipse last?



24. The path of the Moon's shadow across the Earth's surface is called ...?

25. What are the key differences between total and annular eclipses?

26. Compare and contrast: What are at least 3 similarities and 3 differences between a lunar eclipse and a solar eclipse?

