



Today we are...





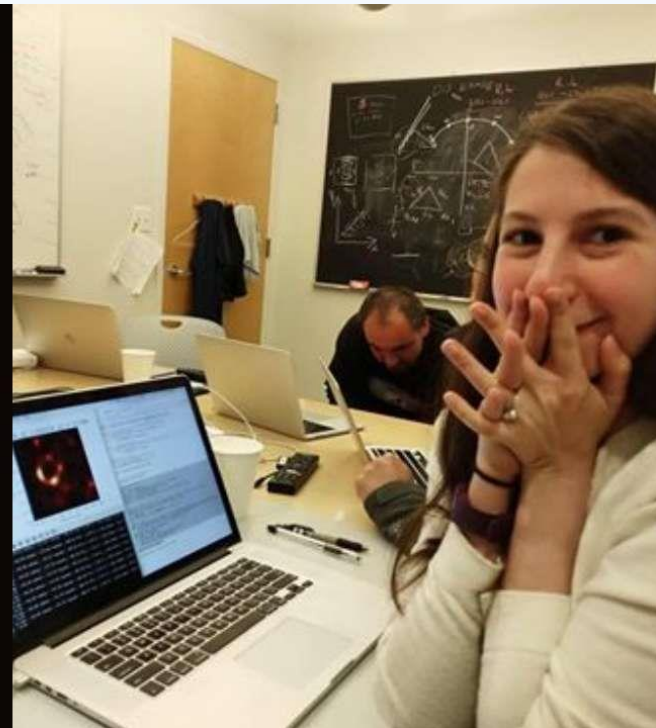
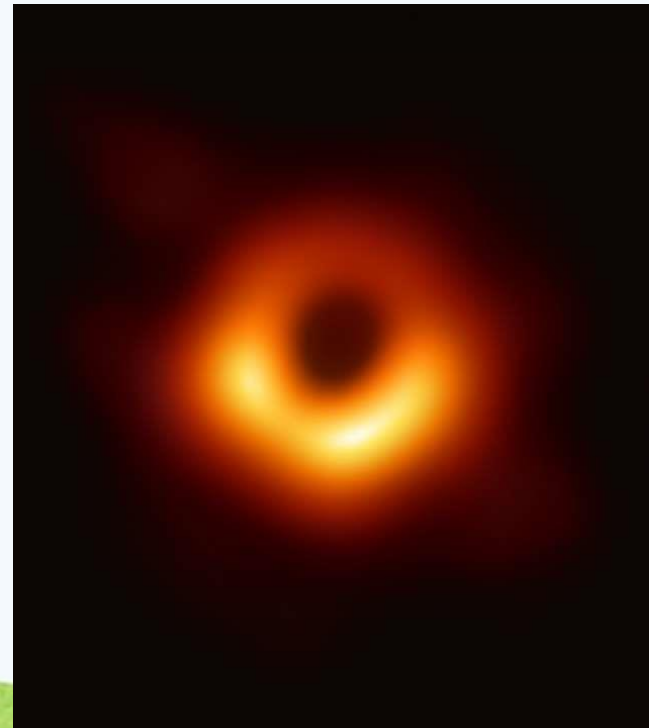
# Scientists!



Science is the systematic study of the physical and natural world through observation and experimentation.

## Scientists can:

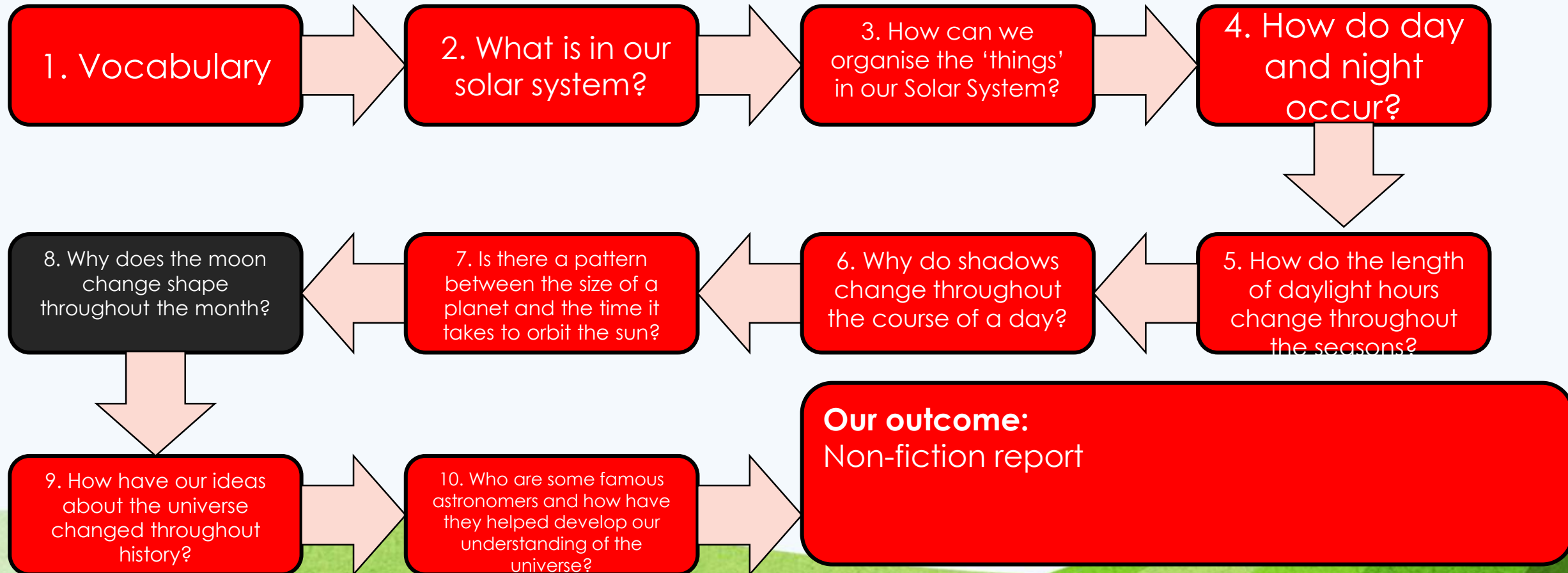
- Discover new things
- Answer questions about our world
- Improve people's health and make life easier for others



# Science



## Our Big Question:





# Learning Objective



We are learning about the orbit of the moon around the Earth.

**KL: Does the moon change shape during the month?**



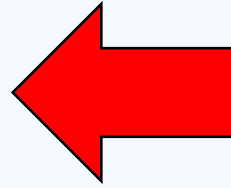
# Today's Science skill is...



**Comparative Test**



**Observation**



**Research**



**Identify and Classify**

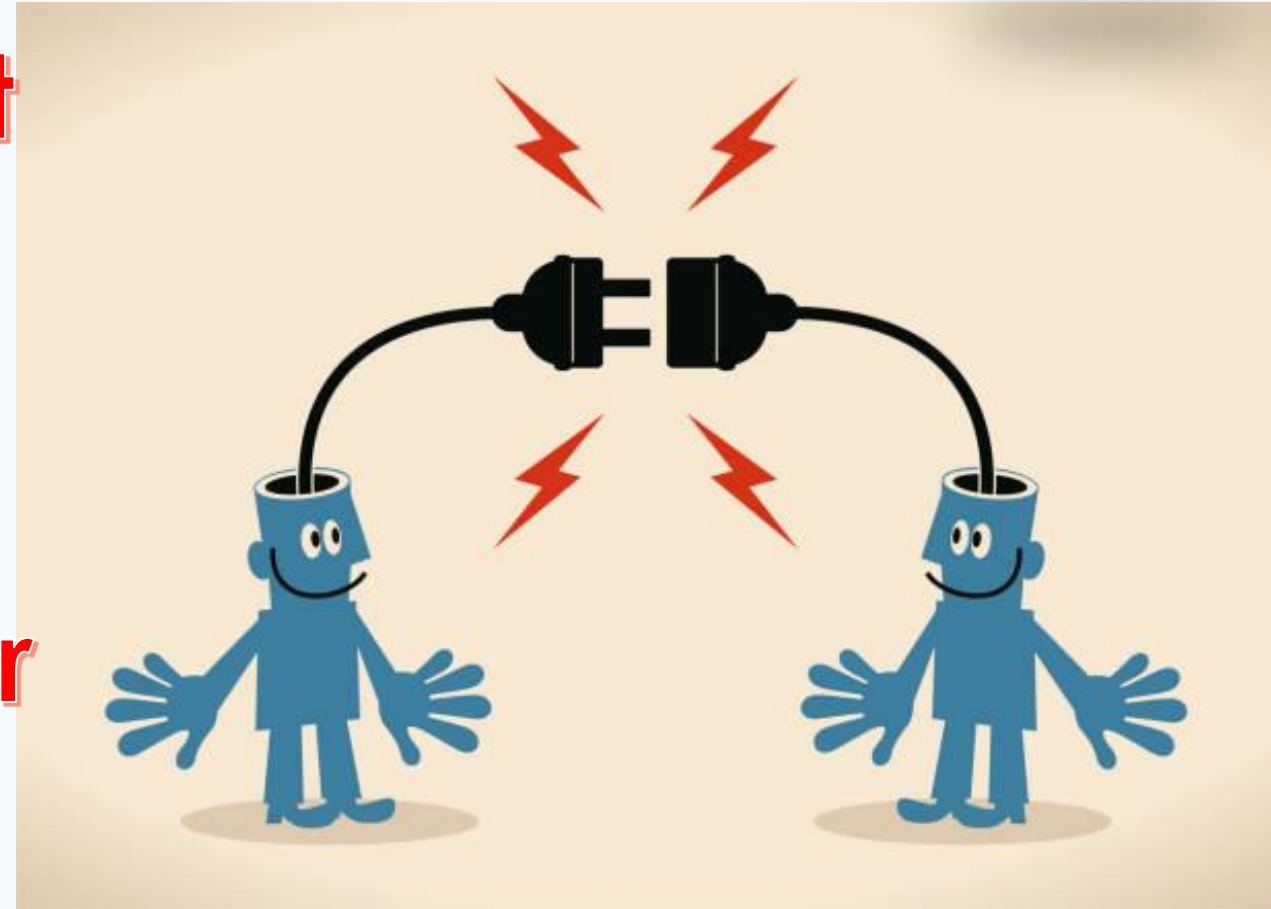


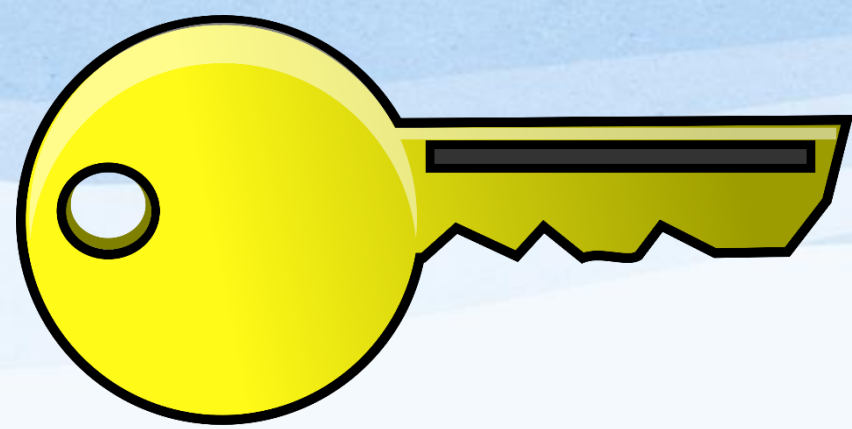
**Pattern Seeking**



# Why are we learning this?

We know about how planets orbit the sun and now we will find out how this is the same/different for the moon.





# Vocabulary



**orbit**

**phases**

**celestial**

**lunar**

**changes**

**moon  
cycle**



# Starter:



What can I add to each part of this table?

Planet

Not a planet





# What is the moon?



The Moon is **a huge ball of rock\*** in space which orbits the Earth. On the Moon there are mountains and flat areas called 'seas'. The Moon's surface is covered in craters made by meteorites. The Moon does not have any light of its own.

*\*It's not really made of cheese, soz!*

<https://www.bbc.co.uk/bitesize/clips/zvw8q6f>

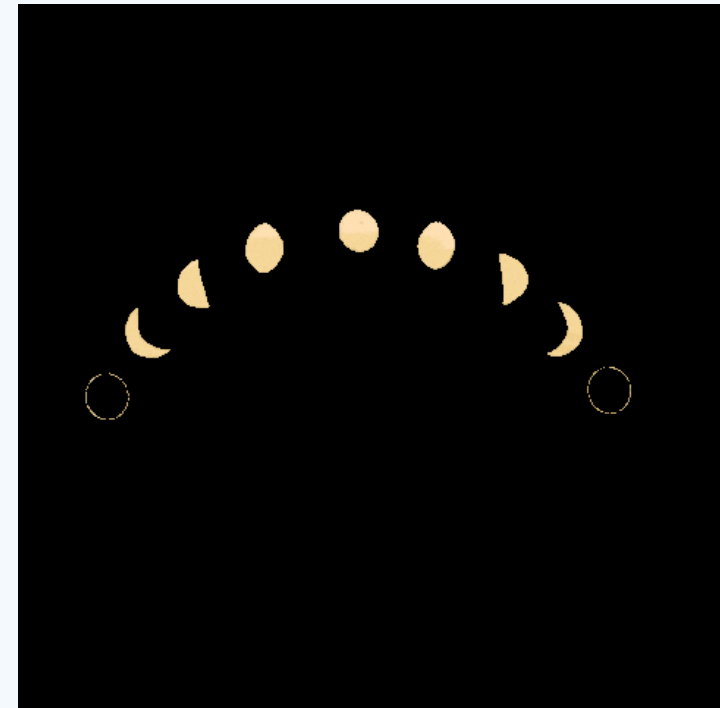


# How does the moon change throughout the month?



What have you observed when you've looked at the moon?

Why do you think this happens?



# Moon Phases



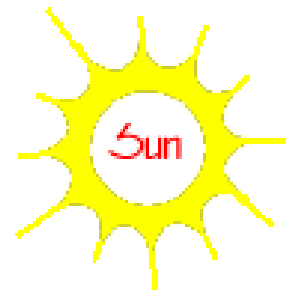
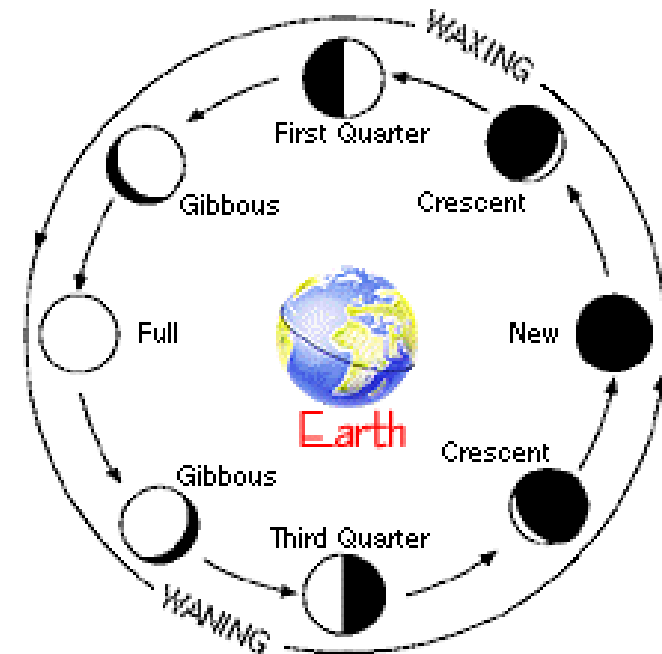
How long is a lunar cycle?

Approximately 27.3 days. {However, the Moon takes longer to come back to the same phase (**29.5 days**) because it has moved a little around the Sun with the Earth.}

<https://www.youtube.com/watch?v=yXeOyxzYkjo>



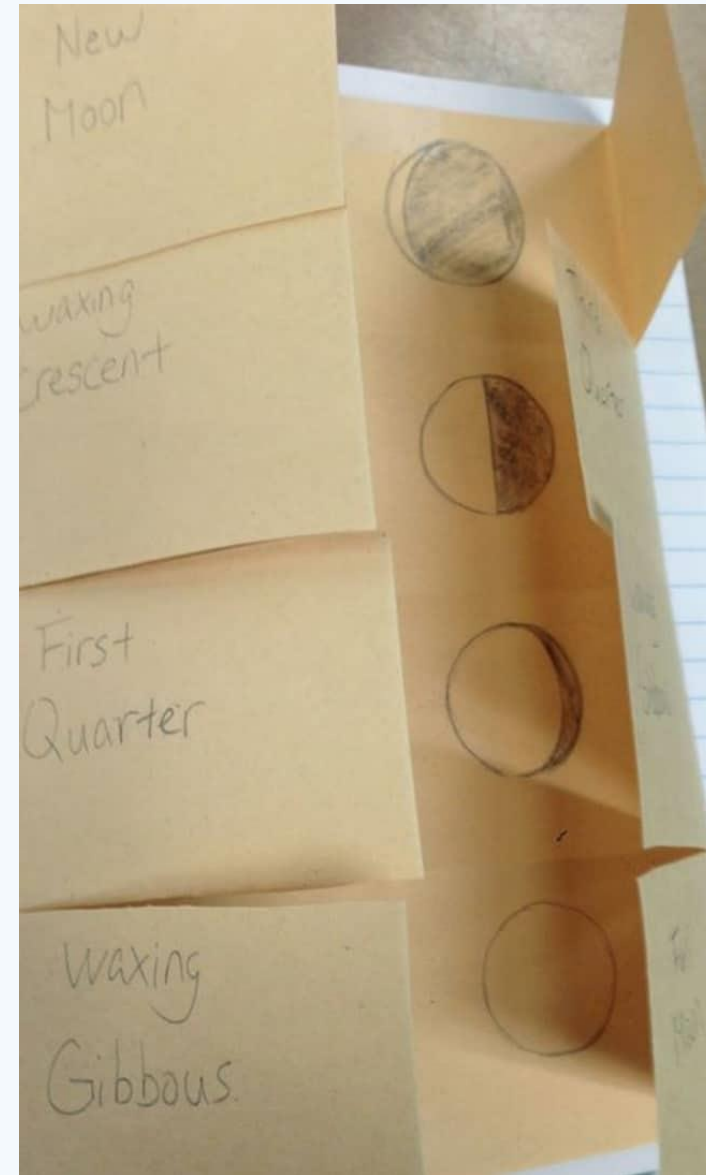
The Moon as seen from Earth



# Your Task:

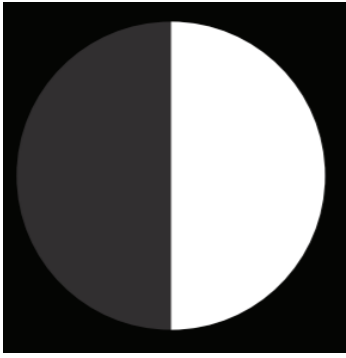


1. Create a flip book to show the stages of the lunar cycle
2. On the back of each flap, explain what is happening in each phase.



# Plenary



Before	Before	Now	After	After
				

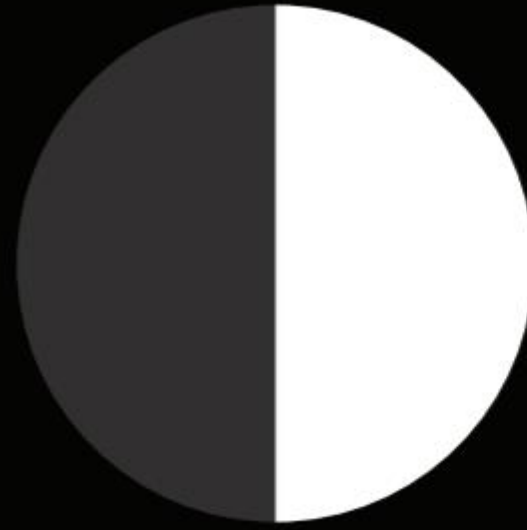




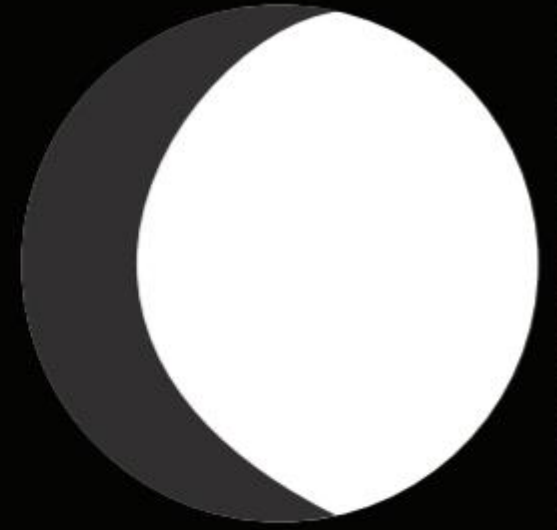
New Moon



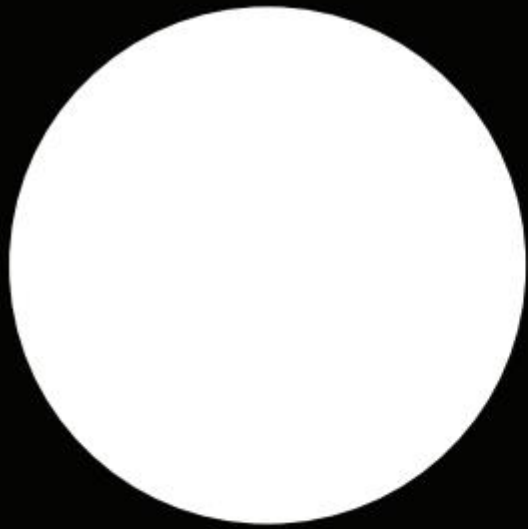
Waxing Crescent



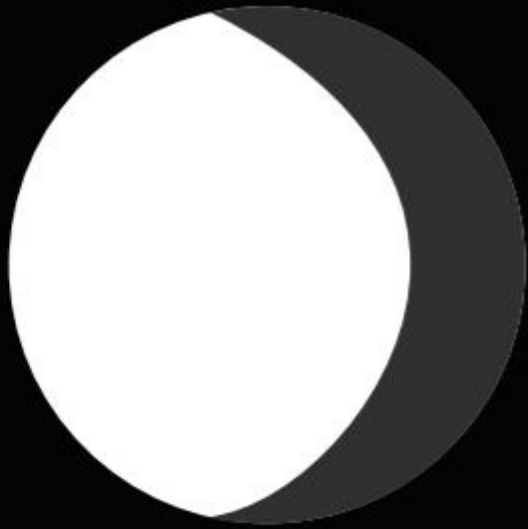
First Quarter



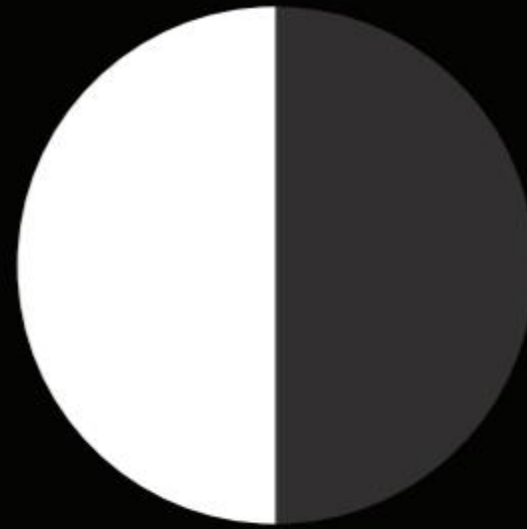
Waxing Gibbous



Full Moon



Waning Gibbous



Last Quarter



Waning Crescent

**NIGHT 1**

Date: \_\_\_\_\_

**NIGHT 2**

Date: \_\_\_\_\_

**NIGHT 3**

Date: \_\_\_\_\_

**NIGHT 4**

Date: \_\_\_\_\_

**NIGHT 5**

Date: \_\_\_\_\_

**NIGHT 6**

Date: \_\_\_\_\_

**NIGHT 7**

Date: \_\_\_\_\_

**NIGHT 8**

Date: \_\_\_\_\_



New  
Moon

1



Full  
Moon

5



Waxing  
Crescent

2



Waning  
Gibbous

6



First  
Quarter

3



Last  
Quarter

7



Waxing  
Gibbous

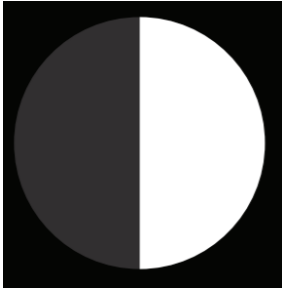
4



Waning  
Crescent

8



Before	Before	Now	After	After
				

Before	Before	Now	After	After
		