



Today we are...





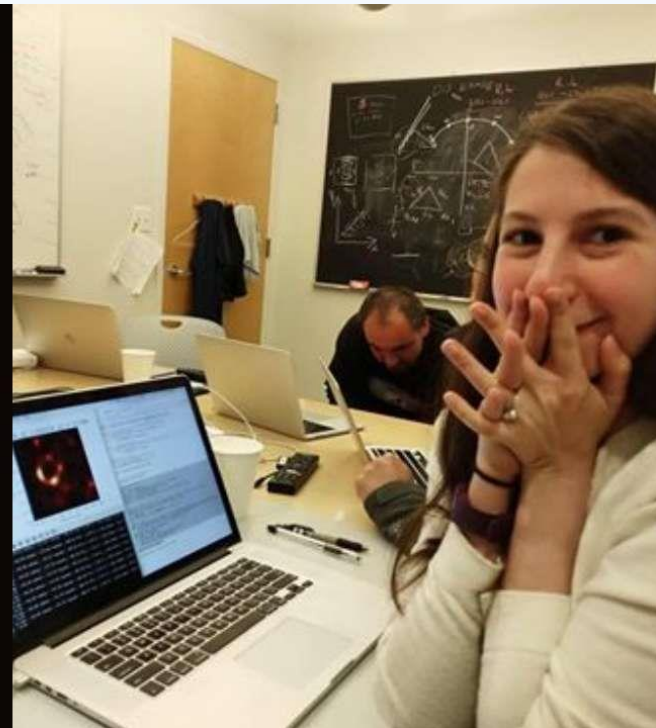
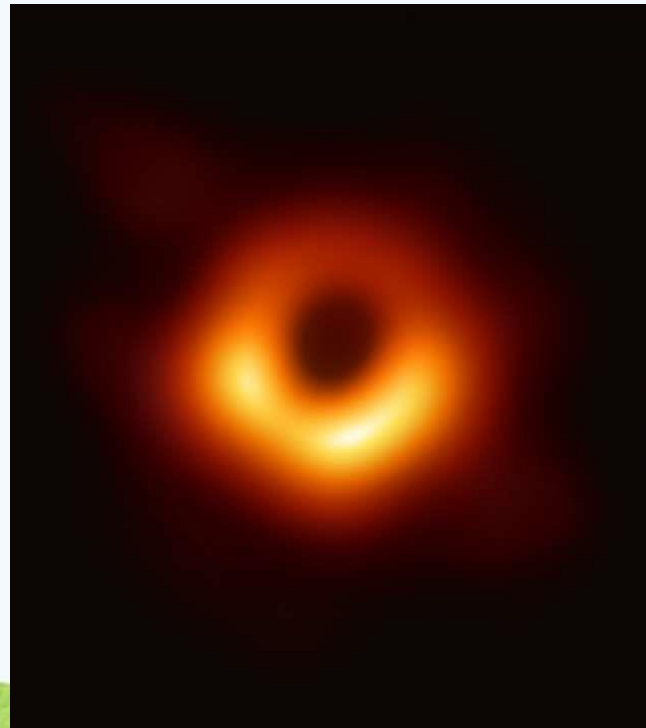
Scientists!



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

Scientists can:

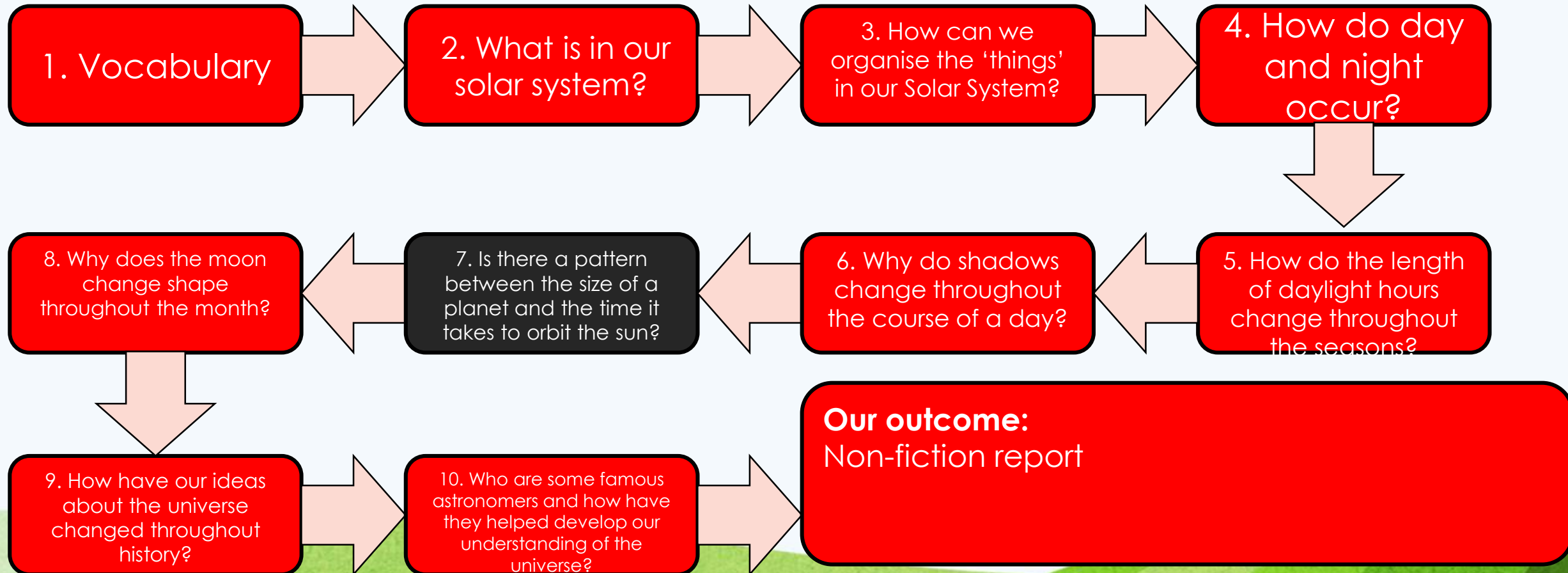
- Discover new things
- Answer questions about our world
- Improve people's health and make life easier for others



Science

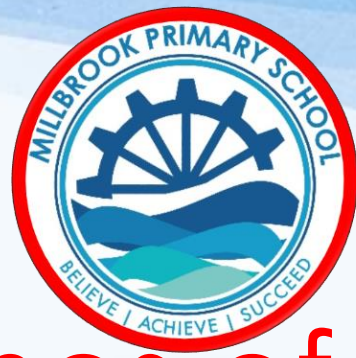


Our Big Question:





Learning Objective



We are learning about the orbit times of different planets.

KL: Is there a pattern between the size of a planet and the time it takes to travel around the Sun?



Today's Science skill is...



Comparative Test



Observation



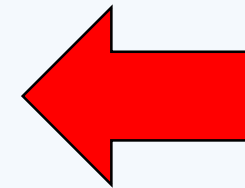
Research



Identify and Classify



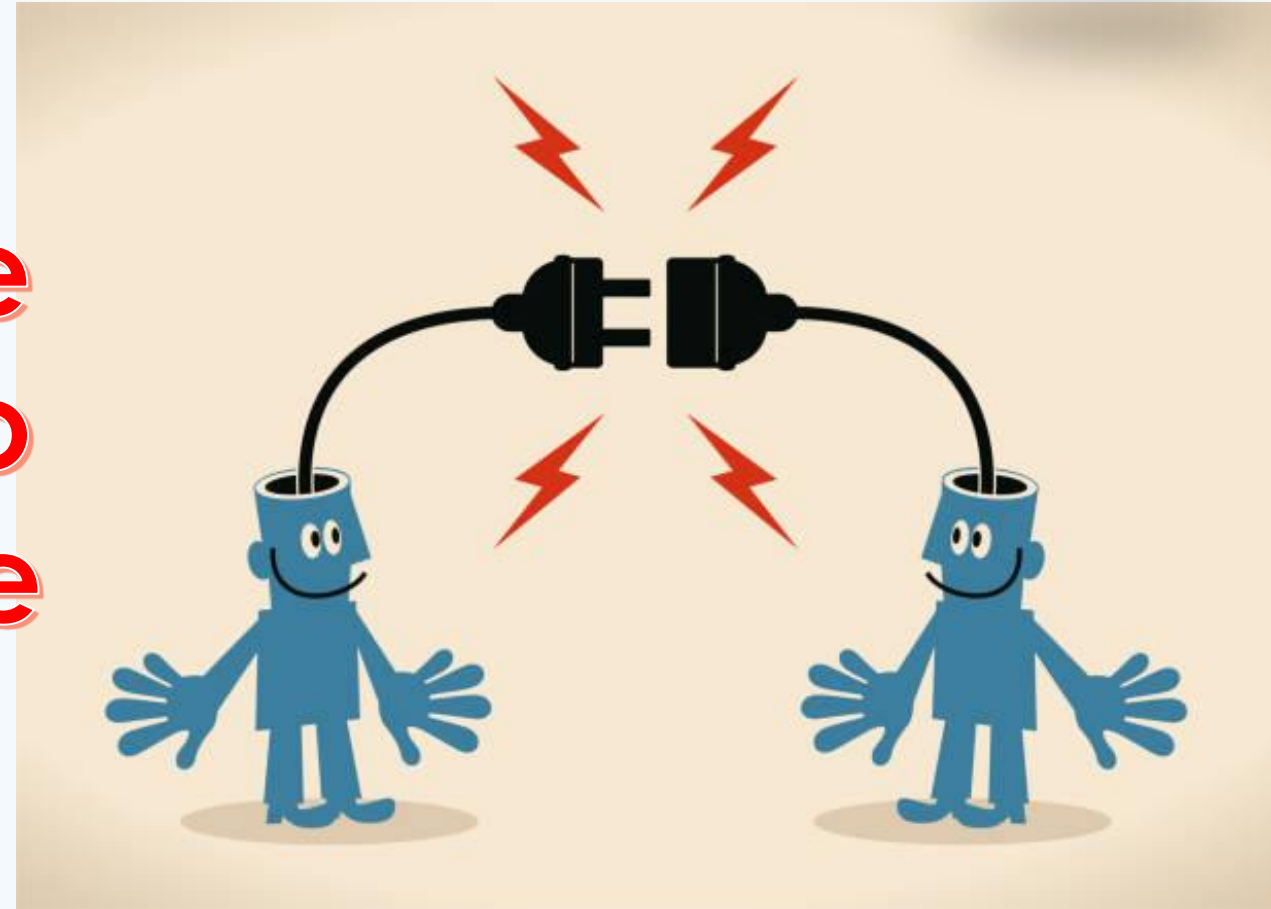
Pattern Seeking

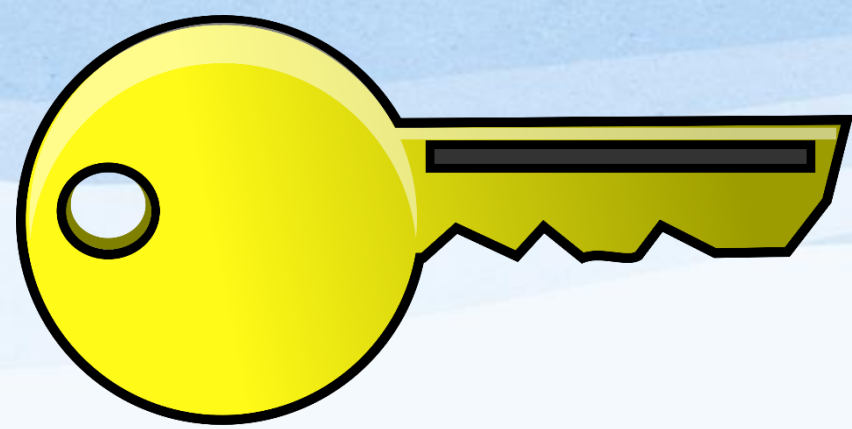




Why are we learning this?

We know how long it takes Earth to orbit the sun so it helps to know if this is the same for other planets.





Vocabulary



planet

orbit

relative size

diameter

radius

orbital
period



Ongoing Investigation



Date.....

The image shows two identical analog clock faces side-by-side. Each clock face has a central red dot and a circle of 12 larger red dots representing the hours, with smaller black dots between them. The numbers 1 through 12 are printed around the perimeter. Below the first clock is the text 'Sunrise time' and '..... am'. Below the second clock is the text 'Sunset time' and '..... pm'.

Sunrise time
..... am

Sunset time
..... pm

Find this sheet from last week in your books.

Today's sunrise time is...

Today's sunset time is...

Is this any different from last week? How? What does that tell us?

Starter:



Space Race!

How quickly can you write the names of the planets of our Solar System?











<https://www.online-stopwatch.com/rocket-timer/>

Activity 1:



Sort the planets in order of size.

Mercury – 1,516mi (2,440km) radius 	Venus – 3,760mi (6,052km) radius 
Earth – 3,959mi (6,371km) radius 	Mars – 2,106mi (3,390km) radius 
Jupiter – 43,441mi (69,911km) radius 	Saturn – 36,184mi (58,232km) radius 
Uranus – 15,759mi (25,362km) radius 	Neptune – 15,299mi (24,622km) radius 



Results:



What order did you put the planets in?

Is that what you expected?

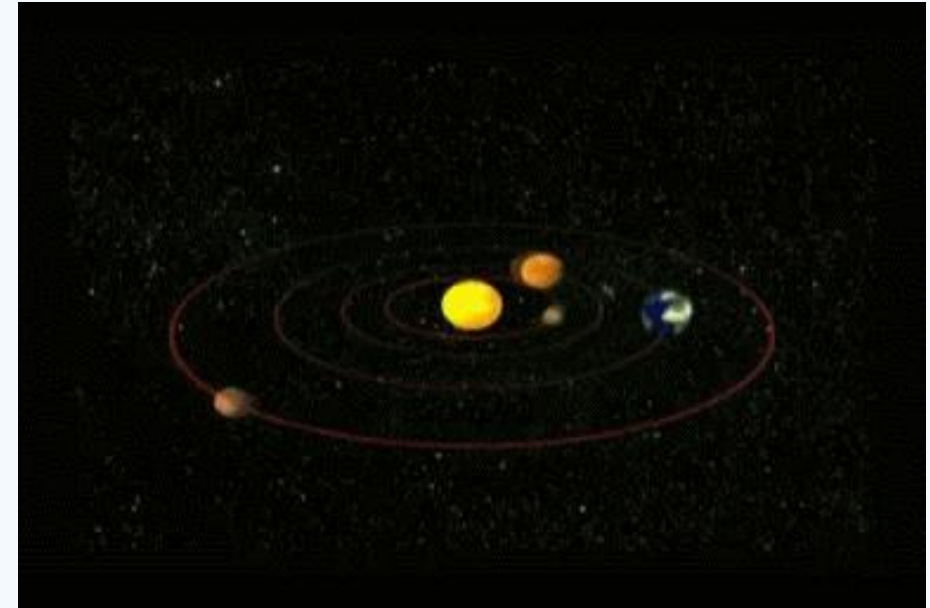


Activity 2:



Now order the planets by their orbit time.

Will this be the same order?



What were your findings?

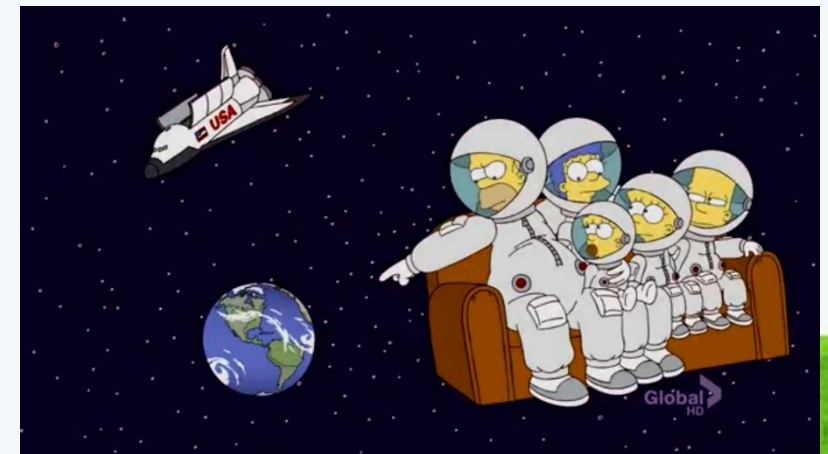


Did you find any patterns?

What were they?

Why do you think this is?

Planet	Rotation Period	Revolution Period
Mercury	58.6 days	87.97 days
Venus	243 days	224.7 days
Earth	0.99 days	365.26 days
Mars	1.03 days	1.88 years
Jupiter	0.41 days	11.86 years
Saturn	0.45 days	29.46 years
Uranus	0.72 days	84.01 years
Neptune	0.67 days	164.79 years



Activity 3:



1. In your books, write the name of the planet, it's size (radius in km) and the length of it's orbital period.



Plenary



What is your age in other worlds?



<https://www.exploratorium.edu/ronh/age/>

