

# Science Knowledge Recap

1. We have day and night because \_\_\_\_\_.
2. Opaque means \_\_\_\_\_.  
Translucent means \_\_\_\_\_.  
Transparent means \_\_\_\_\_.
3. Describe the particles in a solid.

# Planets



# Orbit or Rotate

What is the difference  
between **orbiting** and  
**rotating**?

Discuss with your partner  
and think of how to  
demonstrate to the  
whole class.

rotate

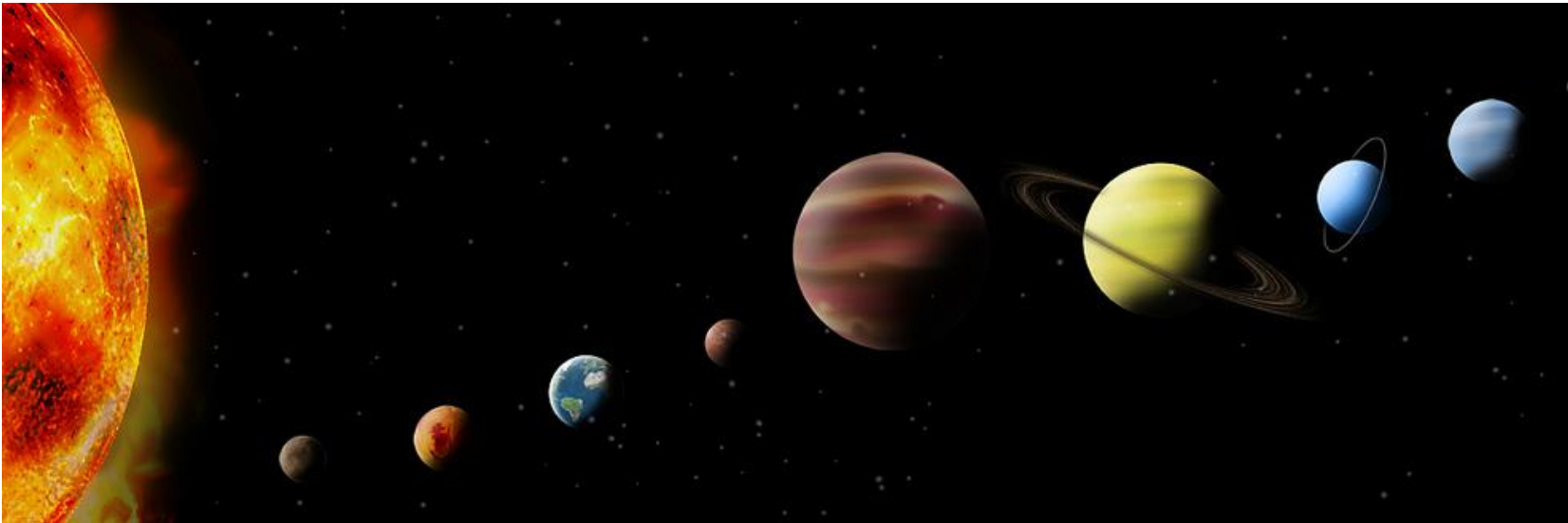


orbit



<b>orbit</b>	To move in a regular, repeating curved path around another object.
<b>rotate</b>	To spin. E.g. Earth <b>rotates</b> on its own <b>axis</b> .

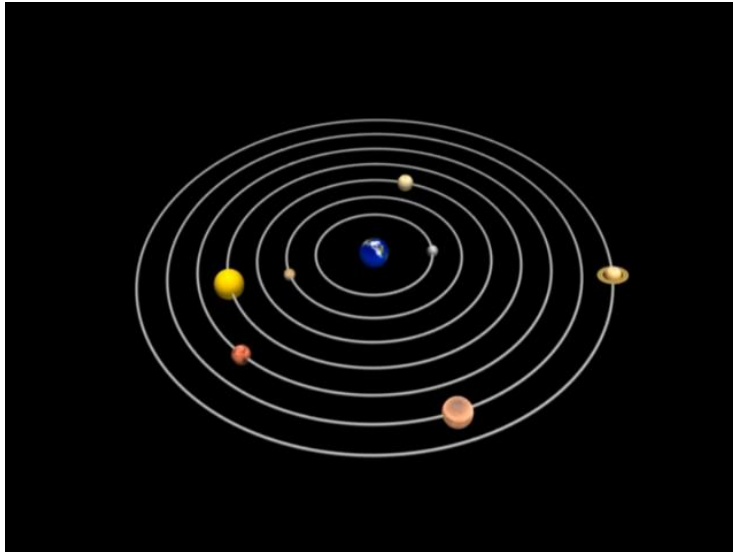
# How Do Planets Move?



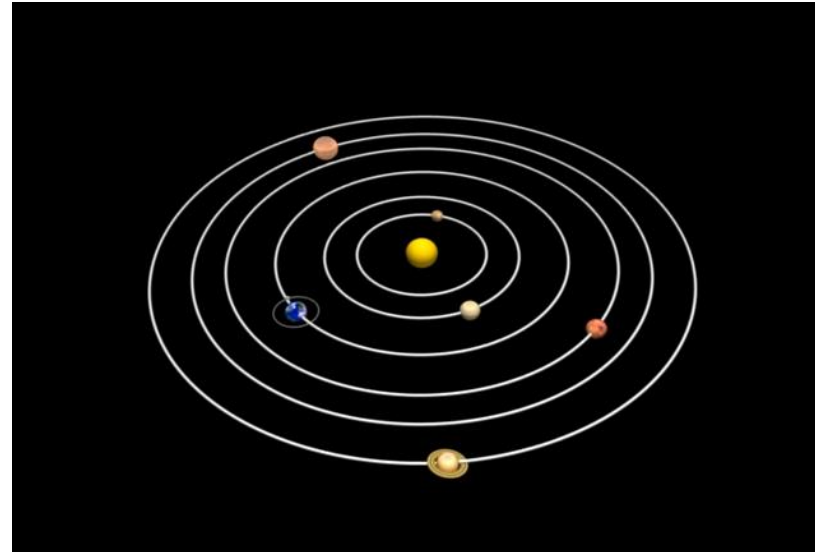
# Geocentric Versus Heliocentric

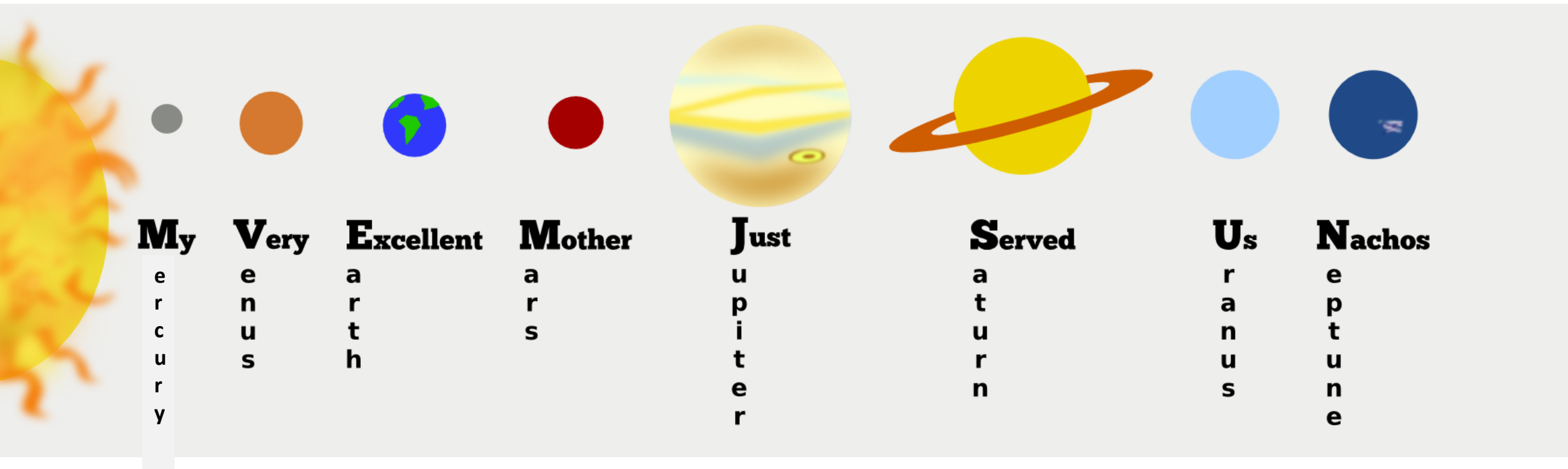
## How did these ideas change?

From ancient times many people believed that the solar system was Geocentric. This means they believed that the Earth was the centre of the solar system and all the other planets and Sun orbited it.



Slowly over time ideas changed to what we now believe, which is the Heliocentric Model. This means that the Sun is the centre of the solar system and it is orbited by the other planets.





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# Earth



**3<sup>rd</sup>** planet from the Sun

**149.5 million km** from the Sun

## Named after:

It's not! Earth is the only planet not named after a Roman or Greek God. The word Earth comes from both English and German words, 'eor(th) e/ertha' and 'erde', which mean 'ground'.

## Temperature:

- 88°C to 58°C

## Colour:

Blue, green, white

## Made of:

Rock and metal

## Moons:

1

## Days in a year:

365.25

## Interesting Fact:

The Earth is the only known planet that supports life. In order for this to happen, a planet needs to be in the 'Goldilocks zone'; which the Earth is!

Using the fact cards or internet research we would like you to complete a factfile about the different planets. You can use the sheet below if you wish (this will be provided as a pdf) or create your own.

Name of planet:	1	3	5	7
Fact:				

Name of planet:	2	4	6	8
Fact:				