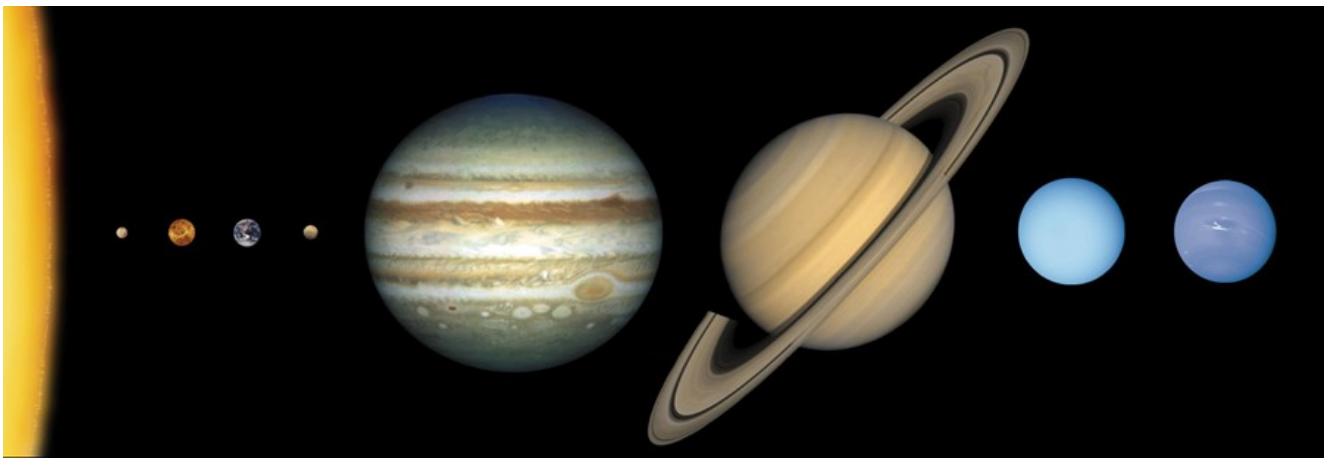
L.O. Understand the movement of planets in our Solar System

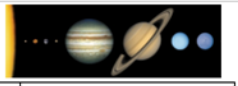


Some of you may already have some knowledge and ideas about how our Solar System works, but you probably have more questions than answers.

In order to think a little more **deeply** about our questions, we will be using a 'Question Generator'

Discuss possible questions as a class first, using the next page. Then work in pairs to fill in your own questions. Finally, share everyone's ideas and magpie the good ones if you want!

Question Generator: The movement of Planets in our Solar System



	is	did	was	could	if
What?					***What*** *would happen* ***if*** *the Sun disappeared?*
Where?					
When?					
Who?			***Who was*** *the first to discover how the planets move?*		
Why?		***Why did*** *people used to believe that everything orbited Earth?*			
How?					

The Geocentric versus the Heliocentric model of the Solar System...

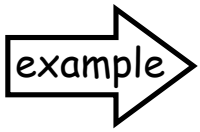
How has our understanding changed over the past 2500 years?

Aut1'15-Science-3-Geocentric_to_Heliocentric_Video.mov

Make notes from the video on the notes sheet.

Write about what you have found out about the movement of the planets in our Solar System. Use information that you have learnt from the video.

You can also use the questions from your Question Generator to remind you about what you have learnt.



Our modern understanding of the Solar System is a result of changes in thinking over thousands of years.

Early people believed in a geocentric model... , which means ...
thought that... This was based on the evidence that...

However, scientists begin to realise...

You might find the following word list useful:

rotate	**scientist**	**elliptical**
solar system	**observation**	**circular**
planets	**movement**	**gravitational pull**
heliocentric	**geocentric**	**orbit**

Return to your Question Generator and circle all the questions that you were able to answer during the lesson.

If there are any questions that you still need to find the answers to, perhaps you can use the Internet at home and share the information with your class.

Another reminder about the scale of our Solar System: this video demonstrates the relative distances of the planets and how they move in space.

When we demonstrated the distances between the Earth, Moon and Sun on the school field, we used a small white bead for the Earth and a tiny one to represent the Moon. The video uses a marble to represent the Earth, so the distances are much larger, which is why a desert has been used...