Big Question: Is it rocket science?			Exciting Books
LQ1	How do we know the Sun, Moon and Earth are spherical?		Frank Colfrell-Royce
LQ 2	What are the names of the planets in our solar system? Can you describe their features?		CIANT Leap Boy see
LQ 3	How does the Earth, and other planets, move in relation to the sun, in the solar system? (Geocentric vs Heliocentric theories.)		
LQ 4	Why does the Sun appear to move?	Sticky Knowledge.	Key Skills
LQ 5	Why is night time and day time different across the world?	Pluto used to be a planet but was reclassified as a dwarf planet in 2006.	Science Objectives Describe the movement of the Earth, and other planets, relative to the Sun in the solar system. Describe the movement of the Moon relative to the Earth. Describe the Sun, Earth and Moon as approximately spherical bodies. Use the idea of the Earth's rotation to explain day and night, and the apparent movement of the sun across the sky. Working Scientifically Plan and carry out a scientific enquiry to answer questions, including recognising and controlling variables where necessary.
LQ 6	What are the different phases of the moon?	Mercury, Venus, Earth and Mars are rocky planets – they are mostly made up of metal and rock. Jupiter, Saturn, Neptune and Uranus are mostly made up of gases (helium and hydrogen), although they do have cores made up of rock and metal.	
End Product	Model solar system focusing on the correct distance between planets and their relation to the Sun.	The Moon orbits the Sun in an oval shaped path while spinning on its axis.	
Links to being previously taught.	Not taught previously.	At various times in the month, the Moon appears to the different shapes. This is because as the Moon rotates around the Earth, the sun lights up different parts of it. The different phases of the moon are: new moon, waxing crescent, first quarter, waxing gibbous, full moon, waning gibbous, third quarter and waxing crescent.	
Cross- curricular links. English/Art	Art and DT – Create a model solar system. English – Explanation text about a planet, newspaper report Apollo 13 mission.	Earth rotates on its axis, it does a full rotation once every 24hours. At the same time that the Earth is rotating, it is also orbiting around the Sun. It takes 365 days and a quarter. This additional quarter every 4 years is where the extra day (leap year) comes from.	Make a prediction with reasons Present a report of their findings through writing, display and presentations
		Daytime occurs when the side of the Earth is facing towards the sun. Night time occurs when the side of the Earth is facing away from the sun.	
Vocabulary	Sun, star, moon, planet, sphere, spherical	The planets in the solar system are: Mercury, Venus.	