Year: 5	Block: 6		KNOWLEDGE ORGANISER- Out of this World					
Curriculum Drivers: Discovery, Inspiration		Enrichment: Trip to National Space Centre		GARP/GASP: Mae Jemison – first black woman in space				
Subject: Science				Cross-curricular links: PSHE, History, Maths				
Learning Journ Lesson 1 LO: To know what the so system is	To know what the solar tem is comets. These		e Knowledge and Key udes the Sun and all objects ets, moons, asteroids, and s are held in place by the	Visuals Order of the Planets in Our Solar System	 Observation Presenting f 	Observations Presenting findings Sola		ntive Concepts and night system Cycle
Lesson 2 LO: To know how the rotation		Sun's gravity. The major planets are round because of their own gravity.		Vocabulary				
of the Earth around the creates day and night Lesson 3 LO: To investigate the apparent movement of t	sun Thar in c	eas to get sunlight lay and night. This	tilted axis, causing differer at different times, resulting spinning takes about 24 hour planets in our solar system:	erent distances and rer it orbits; for example, ptune takes 165 years.	Celestial body - a naturally occurring object outside of the Earth's atmosphere.	Gravity - a force that pulls things towards the planet and keeps other celestial objects in orbit.shape of a sphe (a 3D shape)Orbit - a curved path around a celestial body in space, Object falls as the same rate of the curvature of the object it is orbiting around.Lunar phases Phases of the m across 29.5 dayPlanet - a celestial object with an almost spherical shape in orbitMoons - a larg natural object t orbits, or trave		Spherical – the shape of a sphere (a 3D shape)
across the sky Lesson 4 LO: To know the different phases of the moon and its movement relative to the Earth Lesson 5 and 6 LO: To know about the planets in our solar systems	ent its	ercury, Venus, Eart anus, and Neptune. nposition, and atmo ky or gas giants.	h, Mars, Jupiter, Saturn, Each planet is unique in size, sphere, and they are either		Axis - an imaginary line on which something rotates			Lunar phases - Phases of the moon across 29.5 days.
	spe Me	eds. The closer a p	in oval-shaped paths at diffe planet is to the Sun, the fast is to orbit the Sun, while Ne The Moon orbits the		Heliocentric - describes a model with the sun in the centre			Moons - a large natural object that orbits, or travels around, Earth
Lesson 7 To know the movement of planets in our solar syst		NE CALCER VIENCE	different phases, inc crescent, first quart	cluding new moon, eer, gibbous, and full ts position relative to the	Asteroids - a small, rocky body orbiting the sun.			Star - a large sphere of burning gas in space which planets can orbit around.