SUBJECT: Science Y	EAR: 7 MTP TITLE: Space HALF TERM: NO. OF LESSONS (approx)	: 10
Prom KS1 Observe seasonal changes (temperature and length of day) Observe and describe weather associated with seasons and how day length varies From KS2 Light is reflected from surfaces Dark is the absence of light Not safe to look directly at the sun 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, with the sun being the largest and the moon being the smallest. Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky Objects fall to Earth due to gravity	Universe Our sun as a star and there are billions of stars in our galaxy There are billions of other galaxies within the observable Universe. A light year is a unit of distance and light takes several minutes to reach Earth from the Sun. Earth Seasons are caused by the tilt of the Earth on it's axis — not its distance from the sun. Day length at different times of the year, in different hemispheres due to the rotation of Earth around it's axis. Solar System Our planet is 3rd from the sun in the goldilocks zone, perfect for life. Mars is also in the goldilocks zone, so has the potential for life. All of the planets in our solar system orbit the Sun on tilted axes and moons orbit the planets. Other objects in our solar system include asteroids, comets and satellites Gravity/ Weight: Mass is a quantity of substance that doesn't change in relation to gravity, and weight is a force depending on gravity. Weight = mass x gravitational field strength Gravity acts between the Earth and the moon and the Earth and the sun	Personal transformation (2 or 3) Object's with strongest gravitational pull (black holes) Oort cloud and the Kuiper belt Do Aliens exist? Telescopes in astronomy Living on Mars Space travel The lives of stars JWST – Search for habitable planets
Can I Learning Questions	Literacy	Misconceptions (5 or 6 examples)
 Can I explain what causes day and night? Can I describe how the Earth's tilt causes the seasons? Can I describe the causes of lunar and solar eclipses? Can I describe the difference between mass and weight? Can I describe the different parts of our Solar system? Can I identify the largest objects in the Universe 	Tier 2 vocab Describe, explain, Axis, Sun, stars, galaxy, universe, planets, moon, Earth, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, Season, Mass, Weight Tier 3 vocab Satellites, asteroids, atmosphere, comets, equator, galaxy, solar system, orbit, Oort cloud, Goldilocks zone, axis, black holes,	 The Earth is the centre of the solar system and everything else orbits around it The solar system formed immediately after the big bang The solar system and the galaxy ae the same thing The sun is on fire The solar system only includes the planets, the Sun and our moon There is a dark side of the moon