The Moon is not a light source. It does not create its own light. We can only see the Moon because it reflects light from the Sun. The Moon takes approximately 30 days to complete its orbit around the Earth, after which its lunar cycle repeats itself.

Y5: Thinking like a Scientist...



OHN RANKIN

New Moon	Waxing Crescent				
			Term	Definition	The Solar System
Day 1	Day 1 Day 4	1	Star	A burning mass of gas that makes heat and light energy (E.g. the sun).	Our solar system formed about 4.5 billion years ago from a dense cloud of interstellar gas and dust. The cloud collapsed, possibly due to the
First Quarter			Planet	An astronomical object that orbits a star and does not emit its own light. It can be terrestrial (dense and rocky) or Jovian (gas giant).	shockwave of a nearby exploding star, called a supernova. When this dust cloud collapsed, it formed a solar nebula—a spinning, swirling disk of material
Day 7 Day 10 Full Moon Waning Gibbous		3	Gravity	The force that attracts an object towards a larger object.	As time passed, material began to clump together due to gravity, forming
		4	Solar System	A star with objects (such as planets) revolving around it.	many objects called planetesimals. Over the course of millions of years, they collided with each other to form the planets and moons. Ancient astronomers first thought that the Earth
David S	201	5	Light-year	The distance light travels in a year (≈9.46 trillion km).	was the centre of the universe, and that everything
Day 14 Day 18 Last Quarter Waning Crescent	6	Galaxy	An extremely large group of stars and planets that extends over many billions of light-years, held together by gravity (E.g. Milky Way and Andromeda).	else moved around it in circles. We call this the geocentric model	
Day 22 Day 26 Old Moon Day 28		7	Universe	All of space and everything in it (including stars, planets and galaxies).	We now know that the sun is at the centre of the universe and the planets move in circles (orbits) around it. This is called the heliocentric model
		8	Satellite	An object either natural (E.g. a moon) or man-made, that orbits around a planet.	Sun at the Center
		9	Orbit	A curved path of a planet , satellite or spacecraft around an object such as the sun due to the attraction of gravity .	Terrestrial (rocky) planets Jovian planets (gas giants)
Day and Night The sun appears to rise and set because of the Earth's rotation			Vacuum	A space with no air.	
		11	Asteroid	Irregularly shaped rock that orbits the sun, mostly occurring in the asteroid belt.	and belt
on its axis. The Earth makes one complete turn every 24 hours and it rotates towards the east. It is night in some parts of the world where it is day in other parts. The world is divided into 24 different time zones. One for each hour of the day.	12	Meteor	A mass of rock that burns after entering the Earth's atmosphere (meteorite when the rock has cooled on Earth)		
	me parts of the is day in other Id is divided into ne zones. One for	13	Comet	A mass of ice and dust that has a long, luminous tail of gas.	Mercu Mercu Earth Mars Astero Jupiter Jupiter Uranu Neptu
		14	NASA	The National Aeronautics and Space Administration – a US agency responsible for the exploration and study of space.	The roughly spherical shape of the Earth can be confirmed by many different types of observation from ground level, aircraft, and spacecraft. The
		15	Astronomy	The branch of science that deals with space and the physical universe as a whole.	shape causes a number of phenomena that a flat Earth would not.