

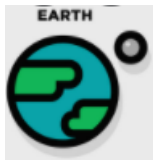
Sun



Mercury



Venus



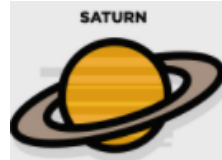
Earth



Mars



Jupiter



Saturn



Uranus



Neptune

Planets of
Solar System

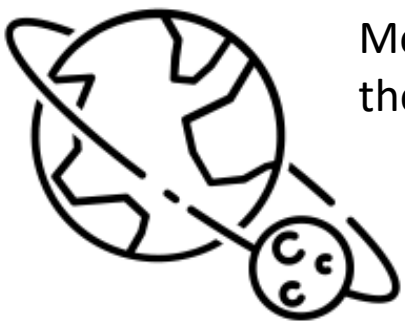


Earth and Space

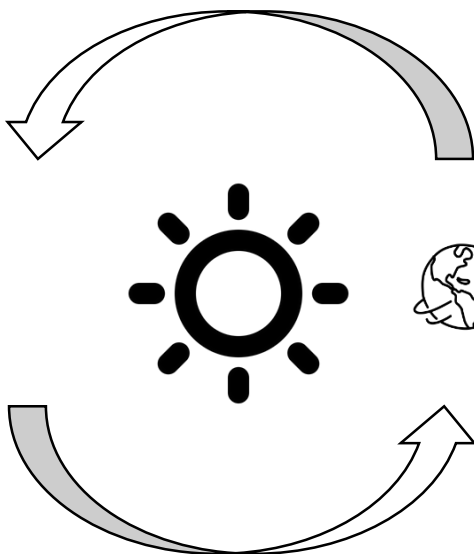


Professor Brian Cox
(1968 – present)

Moon orbits
the Earth



Movement



Earth rotates and
orbits the Sun

Historical beliefs

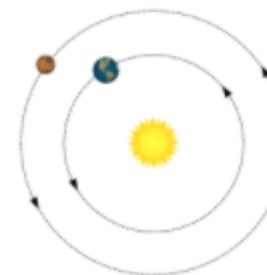


Flat Earth

V

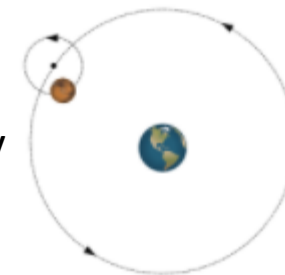


Spherical Earth
















heliocentric
system

V



geocentric
system

	Physics	Physics is the study of energy and matter in space and time and how they are related to each other.
	Earth	Earth is the third planet from the Sun. It is the only planet known to have life on it. The Earth formed around 4.5 billion years ago.
	Solar system	The collection of eight planets and their Moons in orbit round the sun.
	orbit	The regularly repeated elliptical course of an object or spacecraft around a star or planet.
	spherical Body	An object in orbit around the Sun that is large enough to have its self-gravity pull itself into a round (or near spherical) shape.
	moon Phases	The changing portions of the Moon that are visible during the 27-day cycle.
	celestial body	Any natural body outside of the Earth's atmosphere (e.g. the Moon, Sun or any other planet).
	axis	An imaginary straight line passing through the North Pole, the centre of the Earth, and the South Pole. The Earth rotates around this axis.
	rotation	The circular movement of an object about a point in space.
	geocentric	People used to believe that the earth was the centre of the solar system and that the sun, and all the other planets, orbited it.
	heliocentric	Over hundreds of years, scientists began to understand that the sun was at the centre of the universe. They realised that all the planets actually orbited the sun not the earth.
	gravity	A force which tries to pull two objects toward each other. Gravity is what holds the planets in orbit around the Sun and what keeps the Moon in orbit around Earth.
	gravitational pull	The closer you are to an object, the stronger its gravitational pull is. Gravity is what gives you weight