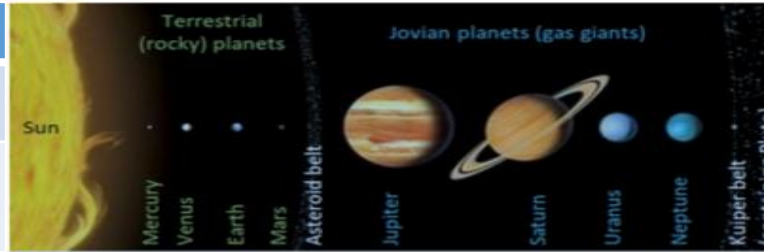


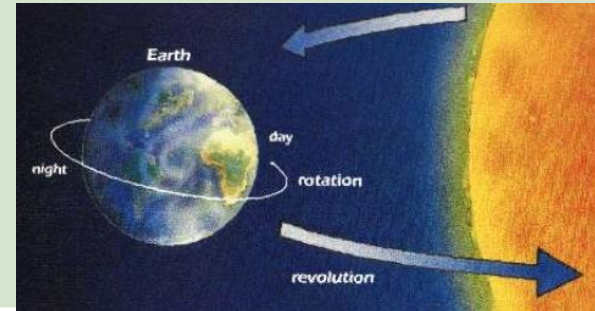
Vocabulary

1	Star	A burning mass of gas that makes heat and light energy (E.g. the sun).
2	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).
3	Solar System	The collection of eight planets and their moons in orbit around the sun. The Sun's massive amount of gravity keeps the solar system together.
4	Gravity	Gravity is a force that exists everywhere. It pulls all things with mass or energy toward one another. We commonly experience gravity by being pulled downwards by the Earth. Gravity keeps all of the planets (including Earth) in orbit around the Sun.
5	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).
6	Universe	All of space and everything in it (including stars , planets and galaxies).
7	Orbit	The curved path of a celestial object or spacecraft round a star, planet, or moon.
8	NASA	he National Aeronautics and Space Administration - a US agency responsible for the exploration and study of space.
9	Axis	An imaginary line about which a body (e.g. a planet) rotates.
10	Moon	The natural satellite of the earth, visible (chiefly at night) by reflected light from the sun.
11	Sun	The star around which planets orbit
12	Day	The period of time during which the Earth completes one rotation around its axis.
13	Night	Night or night time is the period from sunset to sunrise in each twenty-four hours, when the Sun is below the horizon.
14	Solar Eclipse	It occurs when a portion of the Earth is engulfed in a shadow cast by the Moon, blocking the sunlight, occurring when the Sun, Moon and Earth are aligned.



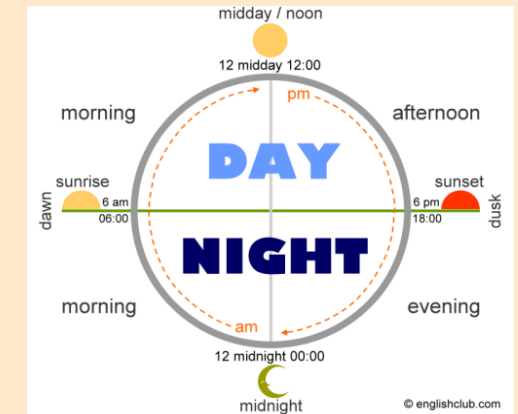
The Earth Moves in Two Ways

The earth moves two ways. It spins around its axis and it moves around the sun. The spinning of the earth is called rotation. It takes the earth about 24 hours, or one day, to make one complete rotation. At the same time, the earth is moving (orbiting) around the sun. This movement is called a revolution. It takes a little over 365 days, or one year, for the earth to make one full revolution around the sun.



Why do we have day and night?

As the Earth orbits the Sun, it rotates meaning half of the Earth is facing the Sun whilst the other half is facing away. The part of the Earth facing the Sun will experience day and the part facing away will experience night. It takes 24 hours for the Earth to rotate on its axis. The Sun does not move, but it is the Earth's movement that makes the Sun appear to rise in the morning from the east and set in the evening in the west.



The Motion of the Moon

The moon is Earth's natural satellite, meaning it revolves around the Earth in the same way the Earth travels around the sun. The moon is about 384,000 km (239,000 miles) from the Earth and it takes about 27 days to make one trip around the Earth. The moon spins around on its own axis in the same amount of time it takes to make one revolution of the Earth. This is why the same side of the moon always faces the Earth. The moon's trip around the Earth impacts Earth's tides and causes eclipses when certain alignments of the Earth, sun and moon occur.

