

Darlinghurst Academy Year 6 Autumn 1: Out of this World – What's Out There?

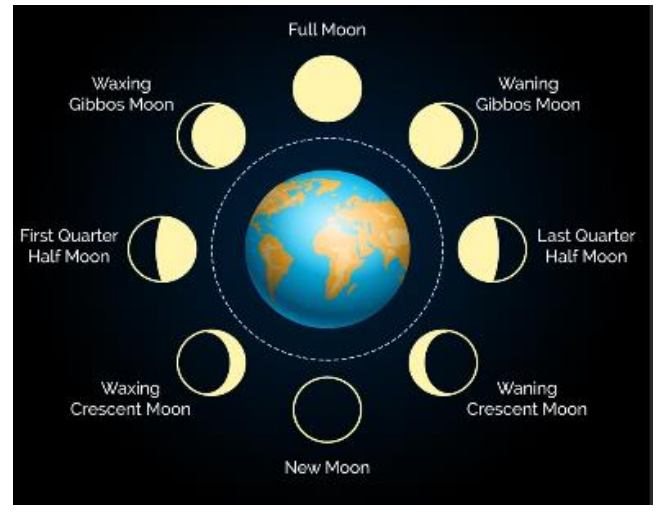
Vocabulary

Asteroid	A rock that orbits the Sun in a belt between Mars and Jupiter
Axis	An imaginary line through the middle of something
Comet	A bright object with a long tail that travels around the Sun
Galaxy	An extremely large group of stars and planets. Our galaxy is called the Milky Way.
Gravity	The force which causes things to drop to the ground
Meteorite	A rock from outer space that has landed on Earth
Orbit	The curved path in space that is followed by an object going round and round a planet, moon, or star
Planet	A large, round object in space that moves around a star
Solar System	The Sun and all the planets that go round it
Star	A large ball of burning gas in space
Universe	The whole of space and all the stars, planets, and other forms of matter and energy in it

The Planets

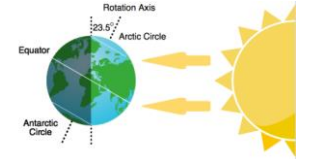


Phases of the Moon

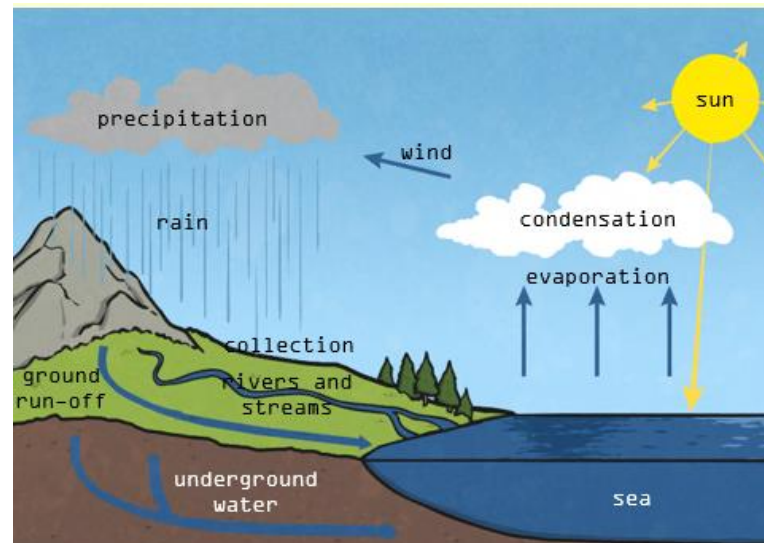


What causes day and night?

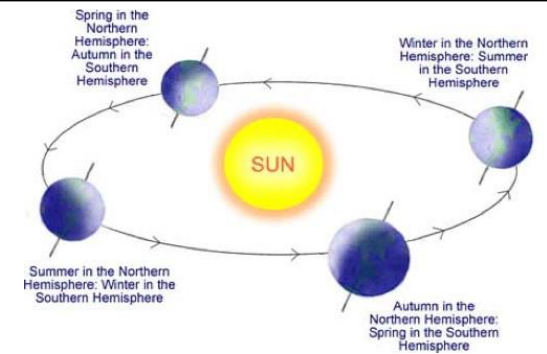
- The Earth rotates on its axis anti-clockwise and makes a complete rotation over 24 hours (a day).
- This makes it appear as the Sun moves through the sky but the Earth's rotation causes day and night.
- Different parts of the Earth experience daylight at different times - this means that it is morning, afternoon and night in different places. This is also the reason why we have time zones.
- Because of the Earth's tilt, the poles experience 24 hours of sunlight in the summer, and very few hours of sunlight in the winter.



The Water Cycle



Year length and the Seasons



The Earth takes 365 and a quarter days to orbit the Sun. Because of the extra quarter day it takes to orbit the Sun, every four years on Earth is a leap year. It is the Earth's tilt that causes the seasons.