



1992

Mae Jemison

is the first African American female astronaut. In 1992, she flew into space aboard the Endeavour, becoming the first African American woman in space.

The Earth takes **24 hours** (1 day) to rotate once on its axis and **365.25 days** (1 year) to orbit the Sun.

Year Five Earth and Space

The Sun, Earth and Moon are approximately **SPHERICAL** bodies



Spring 1



NEVER look directly at the Sun!

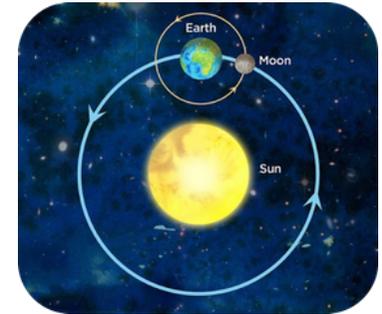
Glossary

- Asteroid** - a small rocky body orbiting the Sun
- Axis**- an imaginary line that a body rotates around. e.g. the Earth's axis runs from the North Pole to the South Pole
- Gravity** - the force that attracts an object towards a larger object
- Moon** - a natural satellite which orbits Earth or other planets
- Orbit** - to move in a regular, repeating curved path around another object
- Planet** - a large object that is round, or nearly round, which orbits a star
- Satellite** - any object or body (natural or man-made) in space that orbits something else
- Solar system** - made of up the Sun, the 8 planets that orbit it and many other asteroids, moons and dwarf planets
- Star**- a giant ball of gas held together by its own gravity
- Sun**- a huge star that Earth and the other planets in our Solar System orbit around
- Universe**- all of space and everything in it

1543
Nicolaus Copernicus formulated a **heliocentric** model of the universe meaning he put the SUN at the centre of the universe instead of the Earth.



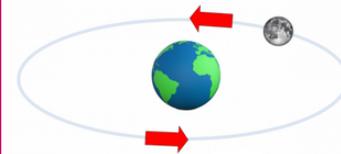
The Moon takes **28 days** to orbit the Earth.



The **8** planets that orbit the Sun are:
Mercury Venus Earth Mars Jupiter Saturn Uranus Neptune

Mercury, Venus, Earth and Mars are rocky planets. They are mostly made up of metal and rock. Jupiter, Saturn, Uranus and Neptune are mostly made up of gases (helium and hydrogen) although they do have cores made up of rock and metal.

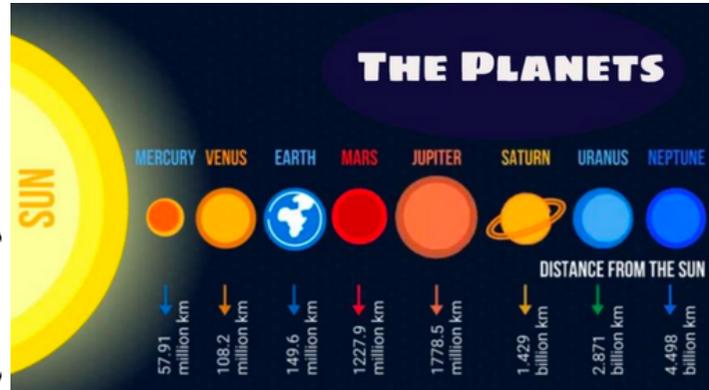
Day and night
At any one time, half of the Earth is in darkness (night-time) and half is in light (daytime). As the Earth rotates, it appears that the Sun moves across the sky, with the Sun rising in the East and setting in the West, but it is the Earth which is moving, not the Sun.



The moon orbits the Earth in an oval-shaped path whilst it spins on its axis.



Pluto used to be considered a planet but was reclassified as a dwarf planet in 2006.



At different times in the month, the moon appears to be different shapes. This is because the sun lights up different parts of the moon as the moon moves around the Earth.