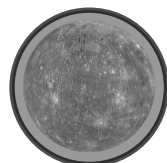


# Year 5: Earth and Space

## THE SOLAR SYSTEM:

The Sun and the objects that orbit it are collectively known as our solar system.

There are eight major planets in the solar system and these planets orbit the Sun. The further away from the Sun they are the longer they take to orbit (the year).



Mercury

The smallest planet in the Solar System.  
**Length of Day:** 58d 15h  
**Length of Year:** 88d



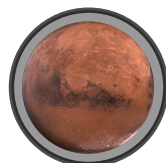
Venus

The second planet from the sun; named after the Roman goddess of love and beauty.  
**Length of Day:** 116d 18h  
**Length of Year:** 225d



Earth

The third planet from the Sun and the only planet known to harbour life and sustain liquid surface water  
**Length of Day:** 24h  
**Length of Year:** 365d



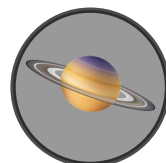
Mars

The fourth planet from the sun and the second-smallest planet in the Solar System  
**Length of Day:** 24h 37m  
**Length of Year:** 687d



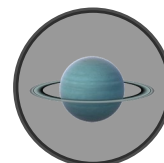
Jupiter

Jupiter is the fifth planet from the Sun and the largest in the Solar System. It is a gas giant.  
**Length of Day:** 9h 56m  
**Length of Year:** 12y



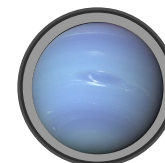
Saturn

Saturn is the sixth planet from the Sun and the second-largest in the Solar System.  
**Length of Day:** 10h 34m  
**Length of Year:** 29y



Uranus

The seventh planet from the Sun. It's named after the Greek god of sky.  
**Length of Day:** 17h 14m  
**Length of Year:** 84y



Neptune

The eight planet from the Sun and the farthest known solar planet. The fourth largest planet by diameter.  
**Length of Day:** 16h 6m  
**Length of Year:** 165y

A satellite is something that orbits a planet and moons are natural satellites. Humans have sent man-made satellites into space to assist with communication.

The universe is vast and our solar system only makes up a tiny fraction of it.

A celestial body is a large object in the universe and a planet is an example of one of these.

The moon is a celestial body that is thought to have been part of Earth billions of years ago when another celestial body collided with Earth.

A star is an exceptionally hot ball of gas, originally made from hydrogen and helium.

The Sun is a star and is the closest one to us.



The Moon

The moon is the Earth's only natural satellite and orbits the Earth roughly every 28 days.

As the moon orbits the Sun, different parts are lit up which is why we see different shapes.

A solar eclipse is when the moon is between the Sun and the Earth. Movement of the moon causes low and high tides.



The Earth

The Earth rotates around an imaginary line through its centre called the axis.

Day and night are the result of the Earth rotating on its axis—one rotation takes 24 hours.

The Earth tilt away from the Sun and it orbiting the Sun causes the seasons.

## WHO:

### Mae C. Jemison: 1956 - Present



Mae C. Jemison is the first African American female astronaut. In 1992, she flew into space with six other astronauts aboard the Endeavor, becoming the first African American woman in space.

In recognition of her accomplishments, Jemison has received several awards and honorary doctorates..

### Fun Facts:

In 1987, Mae C. Jemison became the first African American woman to be admitted into the astronaut training program. Soon after, she became the first African American female astronaut.

In 1992, Mae C. Jemison became the first African American woman in space, traveling aboard the Endeavour.

## KEY VOCABULARY:



**AXIS:** an imaginary line through the middle of something.



**CELESTIAL BODY:** relating to the sky or outer space.



**ECLIPSE:** a blocking of light by a planet or satellite.



**LUNAR:** determined by, or relating to the moon.



**MOON:** the natural satellite of the Earth.



**ORBIT:** the curved path in space that is followed by an object going around a planet, moon, or star.



**PLANET:** a large round object in space that moves around a star.



**ROTATING:** the spin of an object about an axis.



**SATELLITE:** an artificial body placed in orbit round the earth or moon or other planet.



**SOLAR:** determined by, or relating to the sun.



**SOLAR SYSTEM:** the Sun and all the planets that go around 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.