

# Science – Space - Russet Class



## Key Knowledge ✓

The **Sun is a star** at the centre of our solar system.

There are **8 planets** in the solar system.

**Earth rotates** once every 24 hours → day and night.

**Earth orbits the Sun** once a year → seasons.

**The Moon orbits Earth** every 28 days → phases of the Moon.

Gravity keeps planets in orbit around the Sun and the Moon around Earth.

Planet	No. of moons	Length of Orbit (Earth Days)
Mercury	0	88
Venus	0	225
Earth	1	365.25
Mars	2	687
Jupiter	79	4380
Saturn	62	10,585
Uranus	27	30,660
Neptune	14	60,225

## Key Vocabulary ✓

Planet	a large object that orbits a star.
Orbit	the path a planet takes around a star.
Rotation	when a planet spins on its axis.
Axis	an imaginary line through a planet.
Gravity	the force that pulls objects towards one another.
Satellite	an object that orbits a planet (natural, like the Moon, or artificial).
Phases of the Moon	the changing shapes we see as the Moon orbits Earth.
Eclipse	when one object in space blocks the light from another.

