

What is in our solar system?

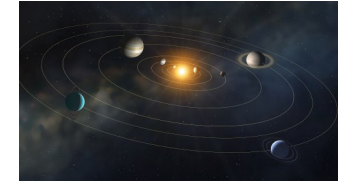
Vocabulary	Definition
solar system	The Sun, planets, moons and smaller bodies such as asteroids, meteoroids and comets
star	A huge, bright ball of burning gas that is held together by gravity. The Sun is the closest star to Earth.
axis	The imaginary straight line on which a planet rotates.
orbit	When one body of matter spins around another
rotate	When a planet moves about its axis
planet	A massive body of matter orbiting a star
celestial body	A natural body outside of the Earth's atmosphere
spherical body	A body in space which is round due to its gravitational force pulling everything to the centre. The planets, moons and Sun are all spherical bodies.

The solar system



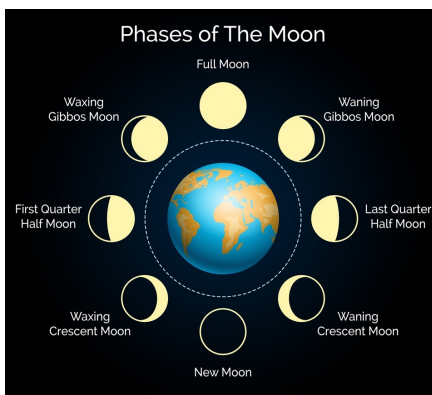
- The sun
- The 8 planets and their moons
- Smaller objects such as asteroids, comets and dwarf planets

How do planets orbit the Sun?



- All planets orbit the sun due to its gravitational pull
- It takes Earth 365 days (one year) to orbit the sun
- The closer the planet to the sun, the quicker it orbits
- The further the planet from the sun, the longer it takes to orbit

The moon and its phases



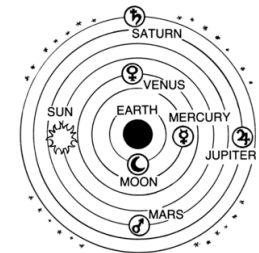
- A moon is a natural satellite which orbits a planet.
- Our moon takes 28 days to orbit Earth
- The Moon reflects the sun's light at different angles as it orbits Earth.
- The part of the Moon we see depends on where the Moon is when orbiting Earth

Day and night



- The Earth rotates about its axis once every 24 hours (a day).
- Facing the sun- daytime
- Facing away from the sun- night time.

Theories of the solar system



- Proven and disproven
- Geocentrism and heliocentrism
- Aristotle, Ptolemy, Copernicus and Galileo

How can we use aerial images to identify geographical features?

Vocabulary	Definition
aerial images	photographs of Earth's surface taken from satellites, aircraft, drones and balloons at different distances from Earth.
maps	two-dimensional man-made drawings of an area
physical features	features in an area that appeared naturally
human features	features in an area that were created by humans
terrain	land and its physical features
land use	what certain land is used for
land marks	an object or feature of a place that has importance or makes it recognisable.
cartography	the science of drawing maps

Aerial images

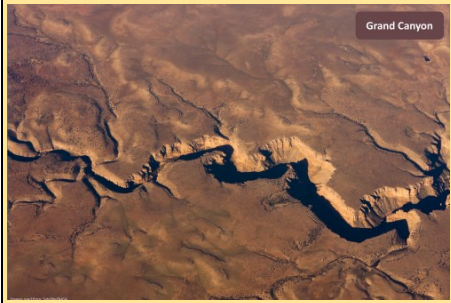
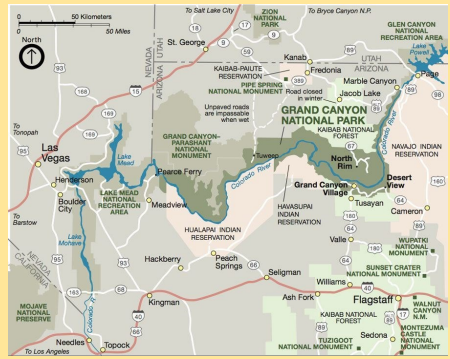
- Allow us to understand an area in more detail.

They can help us to answer questions about:

- Terrain and land use
- Population and landmarks
- Development of a country
- Human and physical features
- Climate

Aerial images vs maps

Aerial images and maps can be used alongside each other to get a better understanding of the features of an area.

Aerial images	Maps
 <ul style="list-style-type: none"> Real life photos No keys, labels or grid references Colours, textures, size of features 	 <ul style="list-style-type: none"> Keys Labels and colour coding Grid references

Rocky, mountainous terrain

River- physical feature

No houses-
not a very
populated area

Very dry
and warm
climate

