

Stargazing

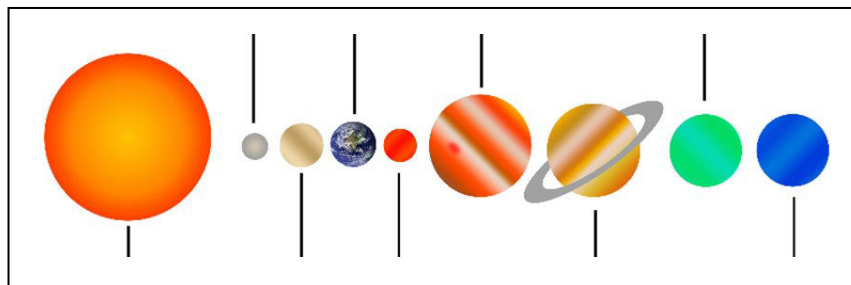
KS2: Years 5 and 6

Science

The Solar System

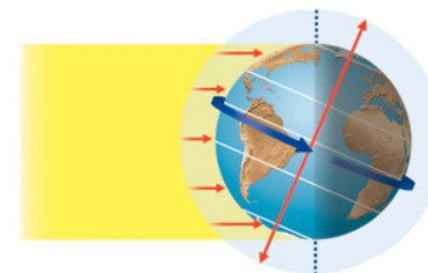
What we already know:

- In Year 1 / 2 we learnt about Neil Armstrong and Tim Peake
- In Year 3 / 4 we learnt about light travelling in straight lines, about shadows



Celestial from Latin caelum = heaven-meaning **relating to the sky or heavens**. Planets and stars are celestial objects or beings.

Why does the sun rise in the East?



Before sunrise, the sun is at a distance, not visible to the part of Earth experiencing night.

Earth rotates anticlockwise (looking from the North Pole).

As night moves to day, the Sun appears on the East horizon—to our left if we stand facing south.

The impression of 'rising' is an illusion; it is the Earth rotating relative to the Earth-Sun line.

planet	An object that orbits a star and does not emit its own light.	asteroid	A small rocky body orbiting the sun.
star	A burning mass of gas that makes heat and light energy. The sun is a star.	Universe	All of space and everything in it.
gravity	The force that attracts objects towards a larger object.	astronomy	The branch of science that deals with space and the physical universe.
solar system	A star with objects (such as planets) orbiting it.	NASA	The National Aeronautics and Space Administration, a US agency responsible for the exploration and study of space.
orbit	A curved path of a planet or satellite around an object.	satellite	An object either natural (moon) or man-made that orbits around a planet.