

# Does the sun ever move? If the Earth is spinning why don't we feel it?

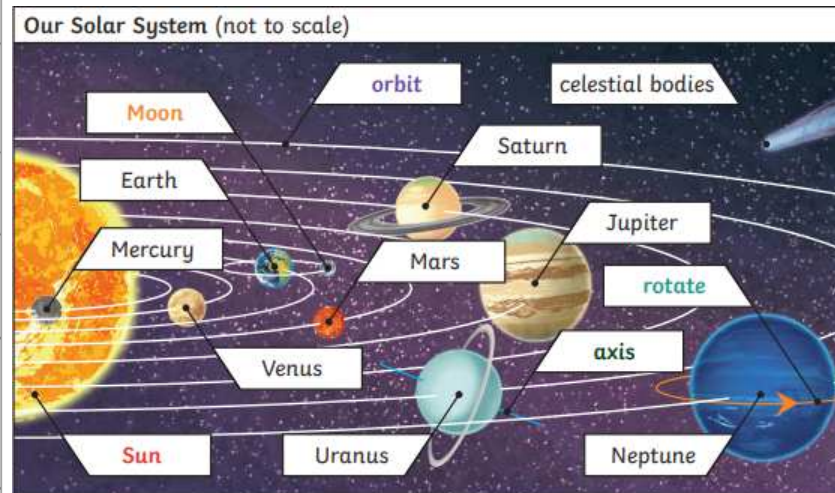
Word	Definition
Sun	A star at the centre of our universe
Moon	A satellite which orbits a planet
Earth	The 3rd Planet in the solar system
Rotation	To spin around
Spherical	Like the 3D shape of a sphere (ball)
orbit	Move in a regular, repeating curved path around an object
planet	A large round object that orbits a star
axis	An imaginary line a planet rotates on



## Key Knowledge and Concepts

Planet earth is part of our solar system  
 The planets orbit the sun – the sun does not move across the sky  
 There are **9** planets which orbit the sun

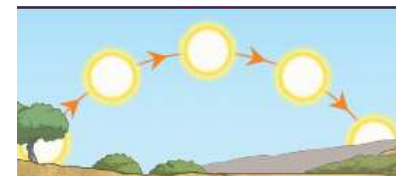
Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto



Earth, moon, sun are approx. spherical

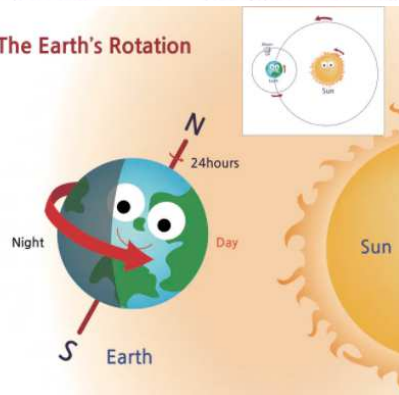


Sphere



**WRONG**  
 The sun does not move!

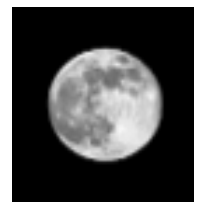
### The Earth's Rotation



It looks like the sun moves across the sky during the day but in fact the earth is spinning on its axis

Day is when earth faces towards the sun and night is when earth faces away—there is no light so we are in darkness

Earth has 1 moon although some planets have more



### Important Times:

Earth spins once on its axis = **24 hours** (one day and night)

Moon orbits the earth = **28 days** (a lunar month)

Earth orbits the sun = **365 1/4 days** (one year)

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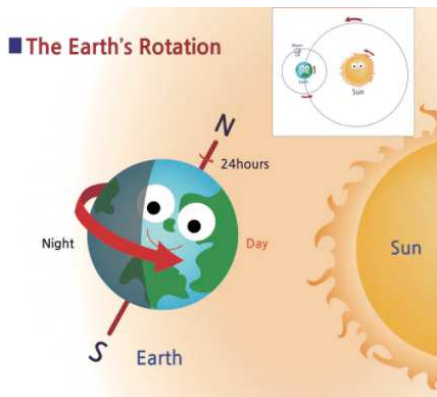
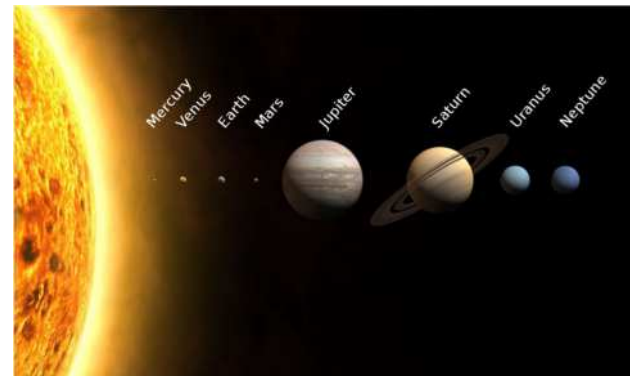
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