To Infinity and Beyond!

Space

Feature	Description
Rotate	Rotation is the movement of an object in a circular motion. A two-dimensional object rotates around a point.
Orbit	An orbit is the path of an object around a particular point in space. For example, the path the Moon takes around the Earth.
Circumference	The distance around the edge of a circle or sphere. It is a type of perimeter.
Astronomer	Astronomers are scientists who study the universe, its objects and how it works.
Constellation	Constellations are groups of visible stars that form an outline or pattern.
Waxing	The moon at any time after a new moon and before a full moon. The illuminated area is increasing.
Waning	A waning moon occurs between a full moon and a new moon. The illuminated area is decreasing.



There are 8 planets in our Solar System and several Dwarf Planets (we are still discovering new ones!)



Our Solar System is part of a galaxy called the Milky Way.

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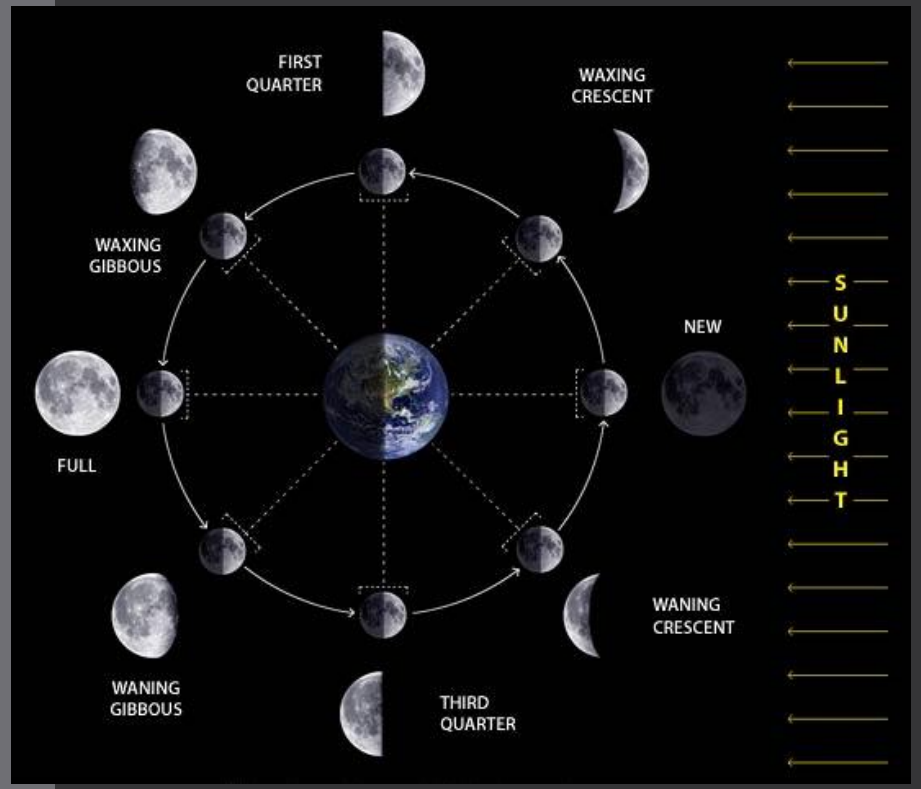
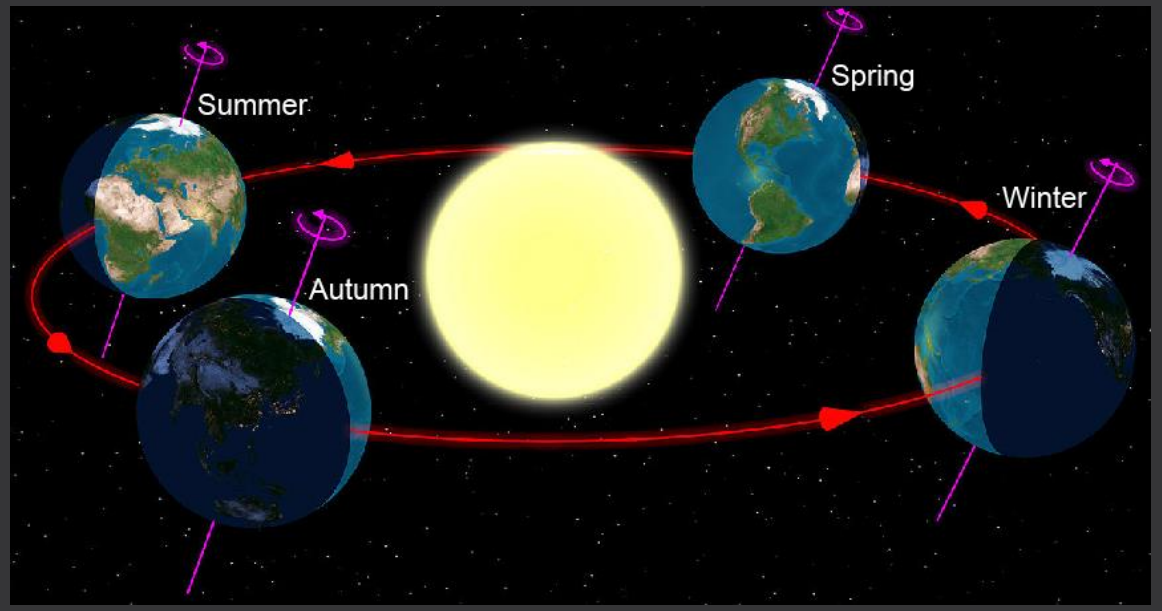
Space



The Earth takes 365 and a 1/4 days to orbit the Sun – This is why every 4 years we have a leap year.
The Earth is tilted on an axis at roughly 23.5 degrees. This means that at different points in the year, we receive different amounts of sunlight. This gives us our seasons.



The Moon is a Satellite. We always see the same side of it and we never see the back. These are the stages of a moon during a lunar month.

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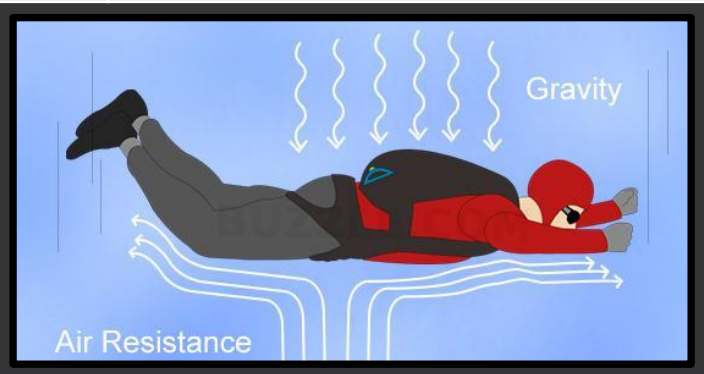
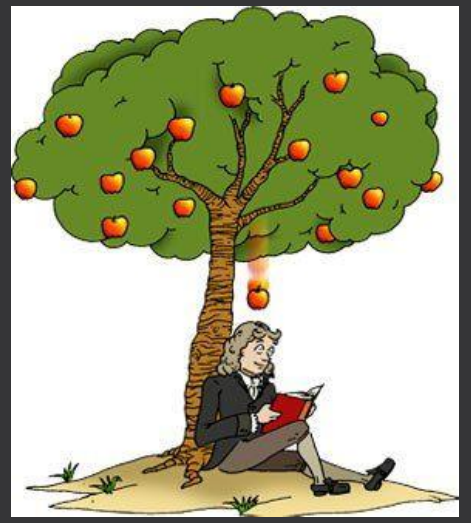
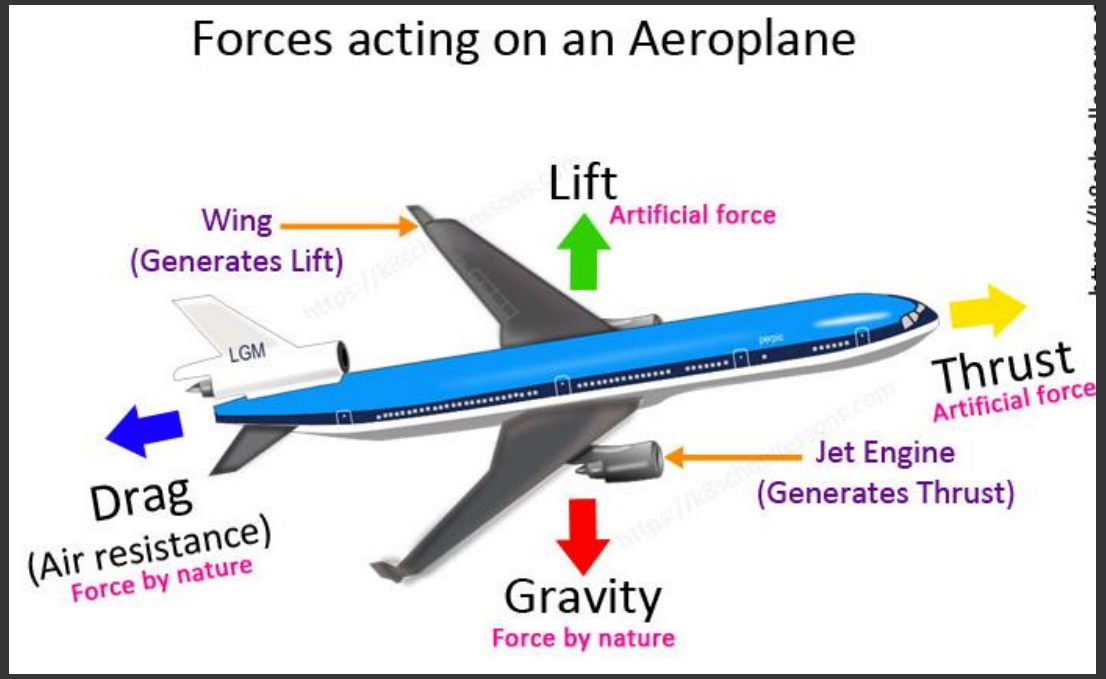
Forces

Vocab	Description
Force	A force is a push or a pull. Forces can make things move, stop moving, change direction and change shape.
Mass	This is how much matter is contained in something. It is measured in kilograms (kg) but is not a force.
Newton	Forces are measured using newtons (N).
Gravity	The force of attraction between two objects. Gravity is what pulls us back towards Earth when we jump.
Air Resistance	A force of friction created when an object moves through the air, also sometimes called drag.





Legend has it that Sir Isaac Newton discovered the effect of gravity after an apple fell from a tree, onto his head.



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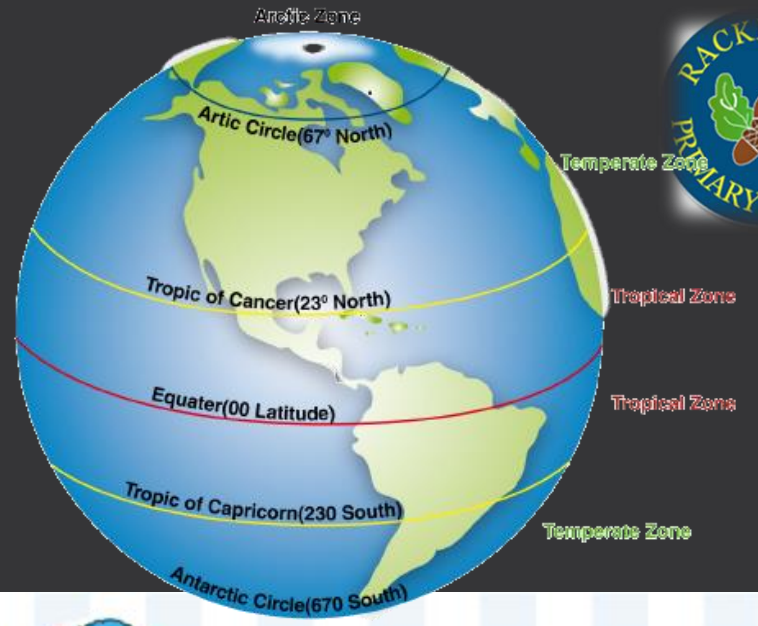
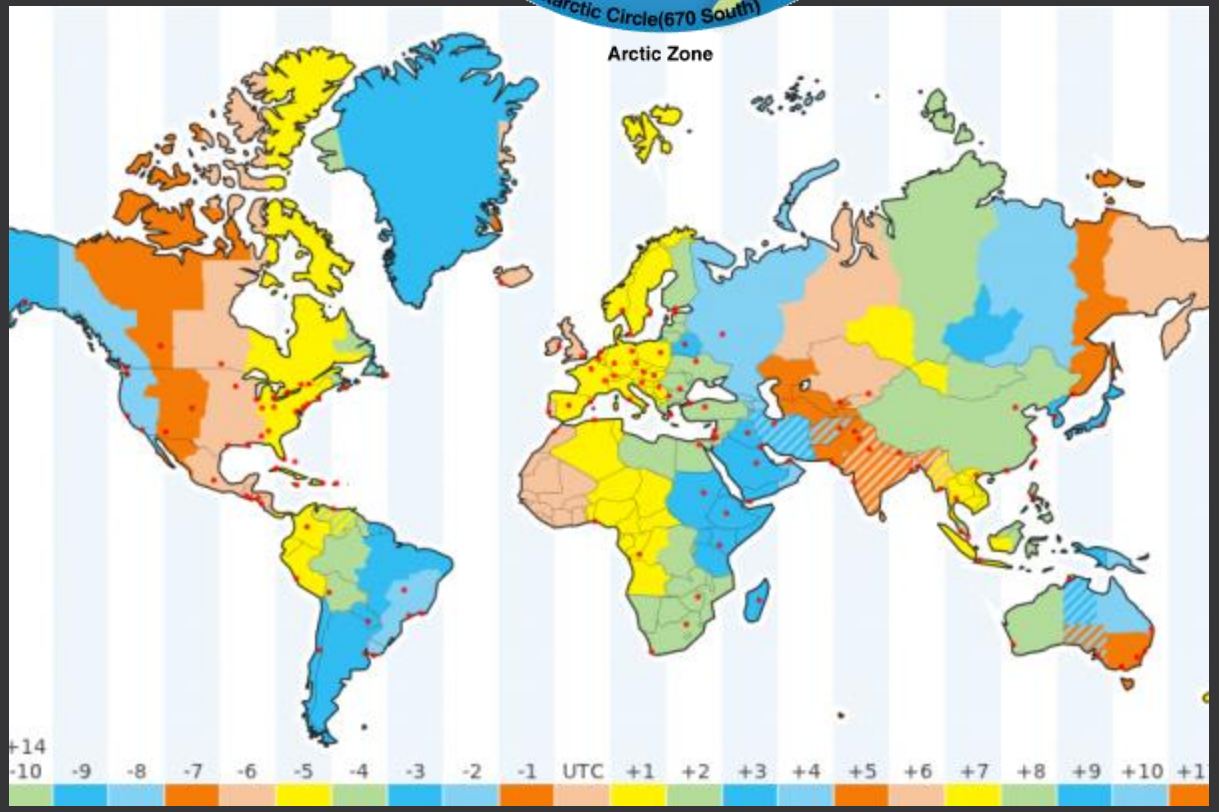
Geography

Vocabulary	Description
Latitude and Longitude	The horizontal and vertical lines that the Earth is divided into for mapping purposes.
Equator	Belt around the Earth to separate the hemispheres
Hemisphere	The Earth is split into the Northern and Southern Hemisphere (top half and bottom half of the globe)
Tropics	Tropic on Cancer in the North. Tropic of Capricorn in the south. The tropics represent the extremes of the suns full rays.
Arctic and Antarctic circle	Artic circle is most Northern area. Antarctic is the most Southern area of the globe. These represent the areas that (at some point in the year) receive continuous daylight or night time due to the tilt of the Earth.
GMT	Greenwich Mean Time. This is the standard time in Great Britain. This time can also be used to calculate the times in other countries.





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