aether	a hypothetical non-material formally hypothesised to permeate all space, having the property of propagating electromagnetic waves
aether wind	this was predicted as the result if the Earth moved through the aether
centripetal acceleration	directed towards the centre of a circle about which an object is moving
centripetal force	directed towards the centre of a circle required for an object to travel in a circular path
circular motion	the movement of an object in a circular path

Einstein, Albert

German-born physicist best known for his work on relativity

electromagnetic waves (radiation)

traverse waves composed of alternating electric and magnetic fields, the components of which are perpendicular to each other and to the direction of the energy flow

escape velocity

the velocity needed for an object to escape from the Earth

frames of reference

objects or coordinate systems with respect to which we take measurements

geostationary orbits

orbits in which the satellite has a period of 24 hours and orbits in the equatorial plane about the Earth

geosynchronous orbits	orbits in which the satellite has a period of 24 hours, but does not orbit in the equatorial plane about the Earth
g-forces	measurements in units of the Earth's gravitational acceleration
gravitational acceleration	the acceleration due to gravity on Earth
gravitational constant	the constant in Newton's Law of Universal Gravitation
gravitational field	that region of space in which a mass experiences a force of attraction from other masses

gravitational potential energy	the work done to move an object a very large distance away to a point in a gravitational field
gravity	the force of attraction between two or more masses
inertial frame of reference	a frame of reference which is at rest or moving with constant velocity; a frame in which Newton's Laws of Motion are valid
length contraction	where the length of a moving rod appears to contract in the direction of motion relative to a stationary observer
low-Earth orbits	orbits with an altitude that ranges from 250 km to 1000 km above the surface of the Earth

mass dilation	the idea that the mass of a moving object increases in relation to a stationary observer
mass-energy	the idea that mass and energy are different forms of the same entity
measurement	the process of comparing some quantity such as length, mass or time to a selected standard
metre	the distance travelled by light in 1/299 792 458 of a second
Michelson-Morley experiment	an experiment conducted to measure the speed of the Earth through the aether