
1. non-inertial frame of reference	an accelerated frame of reference in which inertial forces are present
2. orbit	the path followed by an object travelling in space
3. orbital decay	when low altitude orbiting objects such as satellites and discarded "space junk" re-enter the Earth's atmosphere and ultimately burn up
4. projectile motion	the motion of an object under the influence of a vertical force only, such as an object thrown in the air
5. projectiles	any objects moving under the influence of gravity only
6. radio waves	long-wavelength members of the electromagnetic spectrum
7. re-entry	the return of a spacecraft into the Earth's atmosphere and subsequent descent to Earth
8. relativity	a theory that describes matter, space and time and how they relate to each other; that the laws of physics are the same for all inertial observers
9. simultaneity	where two or more events that are simultaneous for one observer are not necessarily simultaneous for observers in different inertial frames of reference
10. slingshot effect	a method by which a spacecraft can be accelerated by use of the planets, relying on conservation of angular momentum
11. special relativity	the theory of relativity restricted to inertial frames of reference
12. thought experiments	experiments "conducted" entirely in a person's brain, as used by Einstein in his special theory of relativity
13. time dilation	the phenomenon where time in a moving frame appears to be slower relative to a stationary observer
14. time travel	the use of time dilation to allow trips to distant planets
15. trajectory	the path of a projectile
16. twin paradox	a paradox of special relativity involving twins
17. universal gravitation	the law that two or more masses attract each other
18. weight	the force on an object due to it being in a gravitational field
