



ACROSS

- 1 _____ fall is motion with no acceleration other than that provided by gravity.
- 4 _____ circular motion describes motion in which an object moves with constant speed along a circular path.
- 5 _____ means a continuous change in the position of a body relative to a reference point.
- 7 The _____ System of Units (abbreviated SI) is the world's most widely used system of units.
- 9 A _____ is a physical quantity characterized by both magnitude and direction.
- 11 _____ is a branch of mechanics which provides the basic tools for describing the motion of objects.
- 12 _____ is a numerical description of how far apart objects are at any given moment in time.
- 14 _____ is defined as the rate of change of the velocity.
- 15 A _____ is the path a moving object follows through space.

DOWN

- 2 A frame of _____ is a particular perspective from which the universe is observed, providing a set of axes from which an observer can measure the position and motion of all points in a system.
- 3 _____ is defined as the rate of change of the position.
- 6 _____ is the vector that specifies the position of a point or a particle in reference to an origin or to a previous position.
- 8 A _____ vector represents the location of an object in space in relation to an arbitrary inertial frame of reference.
- 10 A _____ is a simple physical quantity that does not depend on direction, and is therefore not changed by coordinate system rotations.
- 13 _____ is the magnitude of the velocity.