

# Motion

## Rest and Motion

The object which is stationary and not changing its position is said to be on Rest. The object which changes its position from one place to another is said to be in motion.

## Types of Motion

The different types of motion around you can be categorized as follows:

**Linear motion:** If an object moves from one position to another along a straight line in one direction is called linear motion. The freely falling football is also following linear motion.

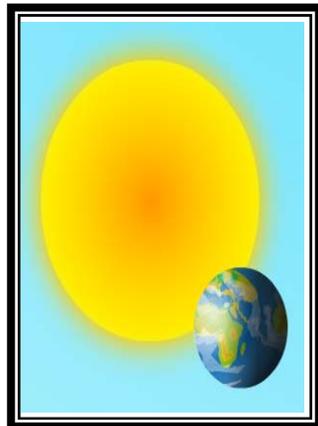
**Circular motion:** when a body moves on its own axis or around a fixed centre, then the body is said to be in circular motion. Both Rotation and Revolution are examples of circular motions.

**Combination motion:** Motion having more than one type of motion is called combination motion. In a well, the pulley on which the rope runs has a circular motion and the bucket has a linear motion.

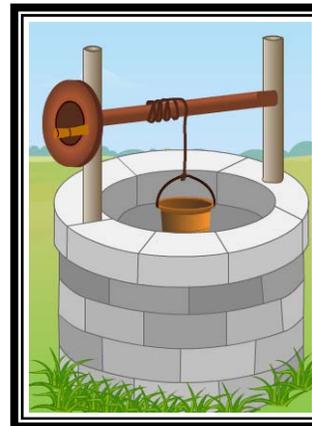
**Periodic Motion:** The motion where an object repeats its motion after a fixed time interval is called periodic motion. Child Swinging on swing - Periodic Motion.



Linear Motion



Circular Motion



Combination Motion



Periodic Motion