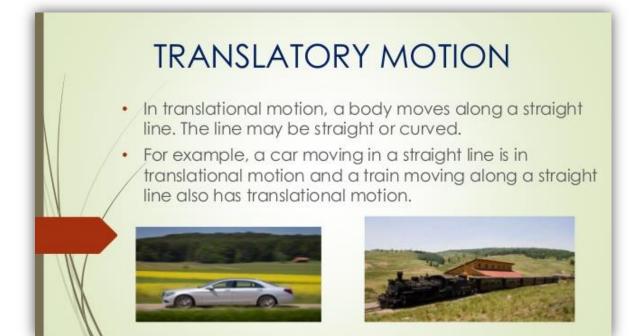
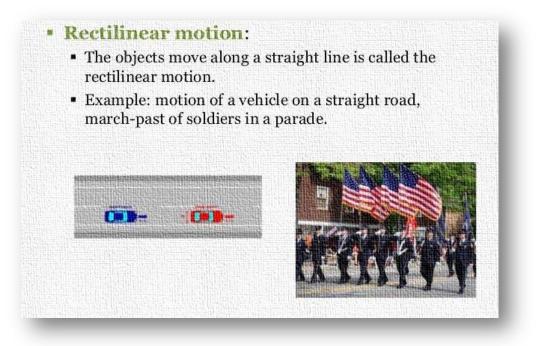
(1) Translatory Motion:



(a) Rectilinear Motion:



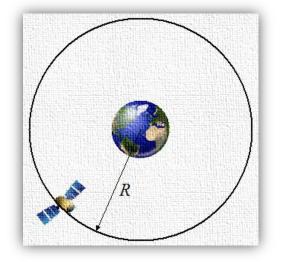
(b) Curvilinear Motion:

The motion of an object moving in a curved path is called *curvilinear motion*.



(c) Circular Motion:

Circular motion is a movement of an object along the circumference of a circle or rotation along a circular path.



(2) Rotatory Motion:

Figure: 1 Definition

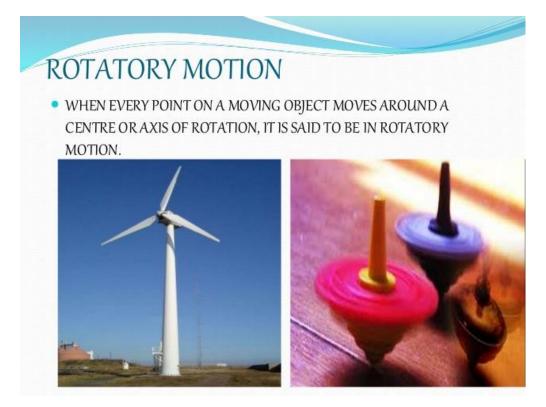
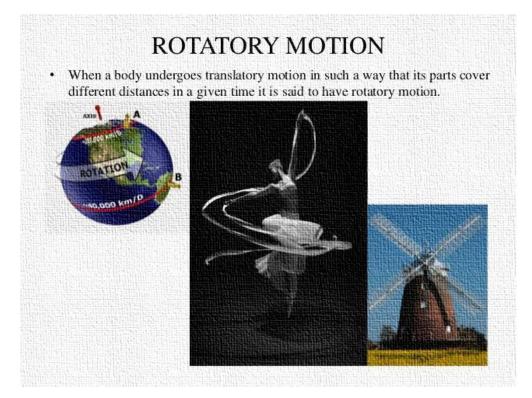
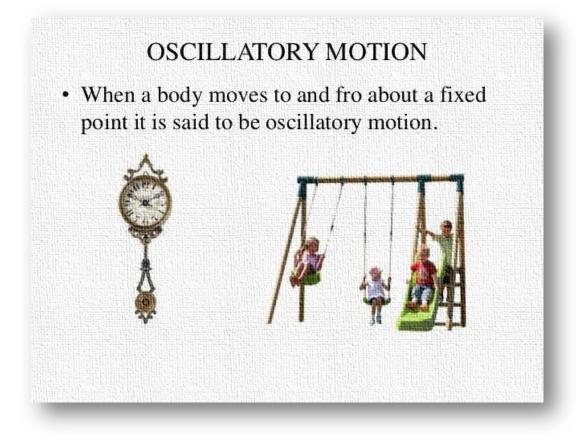
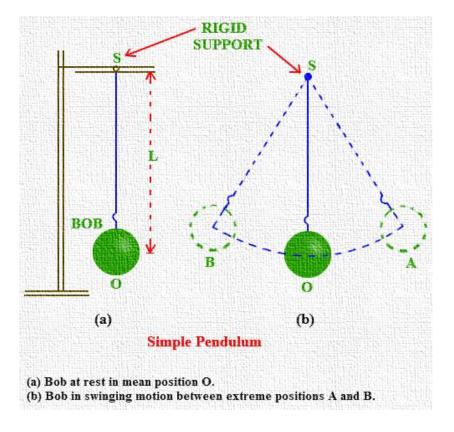


Figure: 2 Definition

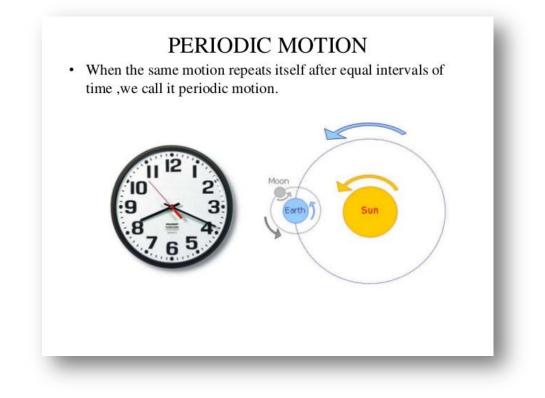


(3) Oscillatory Motion:-





(4) Periodic Motion:-



(5) Uniform Motion:-

Uniform motion is the kind of motion in which a body covers equal distances in equal intervals of time.

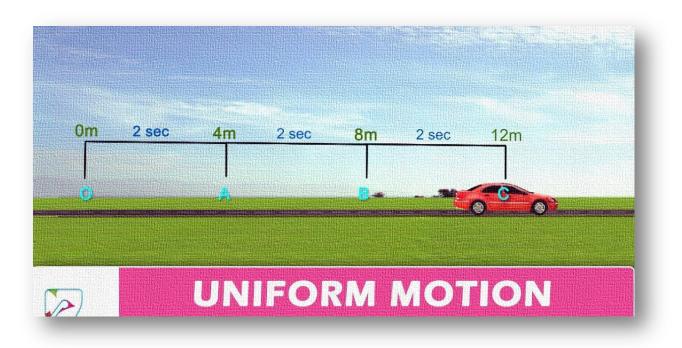
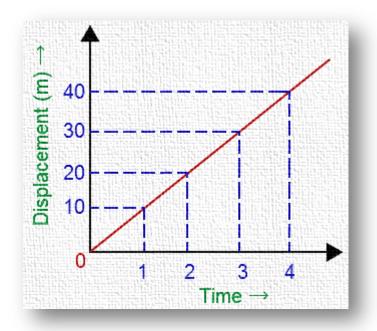


Figure: 1 – Graph of Uniform Motion is a straight line.



(6) Non Uniform Motion:-

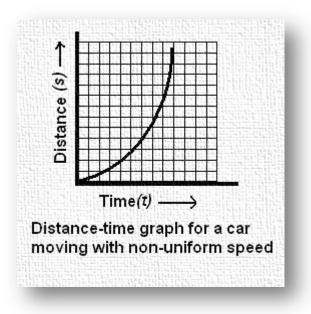
Non-Uniform Motion If an object covers unequal distance in equal time of interval is

Bowling

equal time of interval said to be as non uniform motion.

Eg.

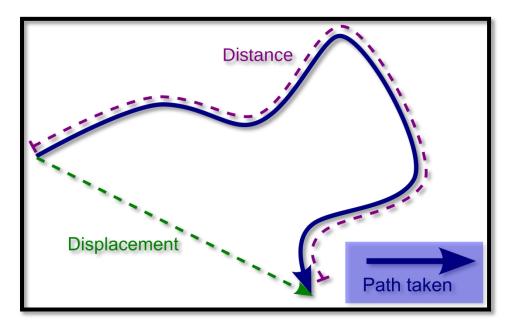
A person jogging , a car moving in a crowded place , a bowler throwing a ball , etc Figure: 1 – Graph of Non-Uniform Motion is not a straight line.



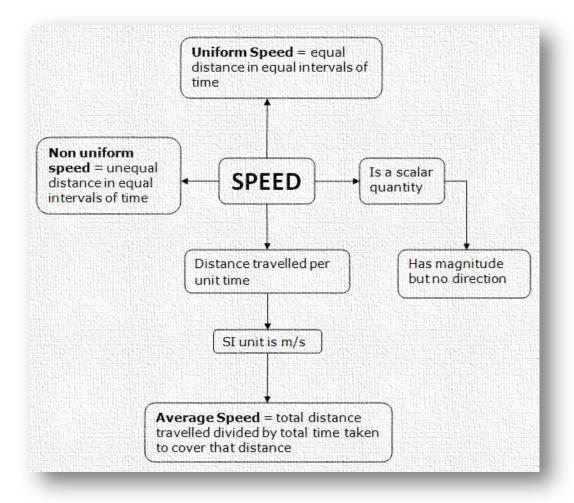
(7) Distance and Displacement:-

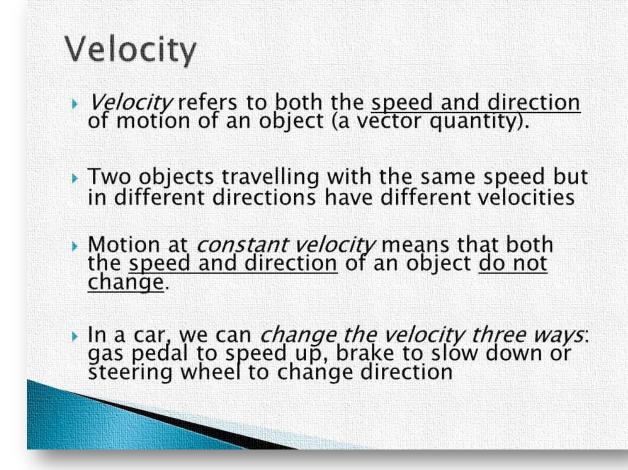
Distance	Displacement
Distance refers to the total	Displacement refers to the
length of travel	distance moved in a
irrespective of the	particular direction.
direction of the motion.	It is the object's overall
	change in position.
It is a scalar quantity.	It is a vector quantity.
SI unit: metre (m)	SI unit: metre (m)
Other common units:	Other common units:
kilometre (km), centimetre	kilometre (km), centimetre
(cm)	(cm)





(8) Speed and Velocity:-





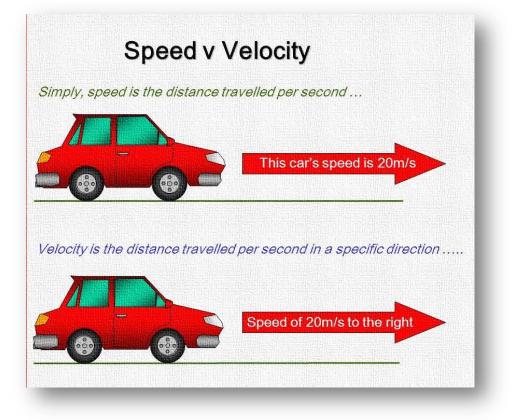
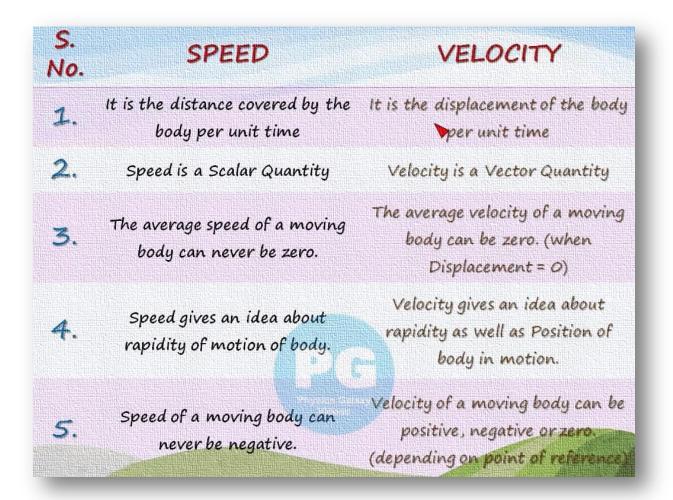
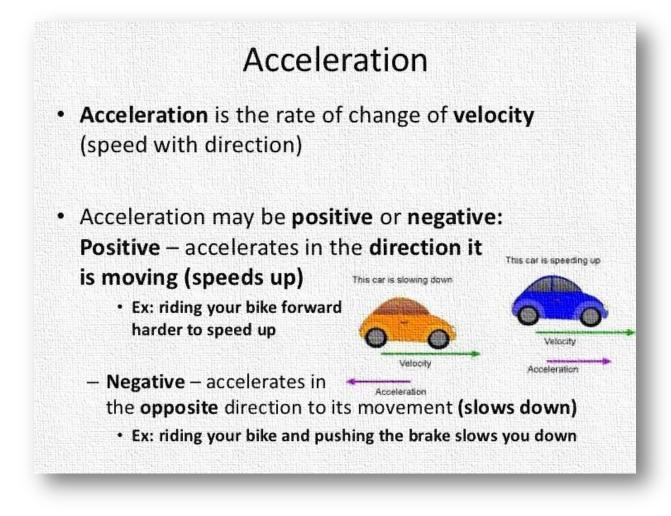
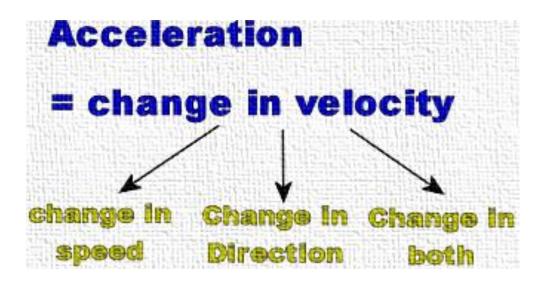


Figure: Difference between speed and velocity.

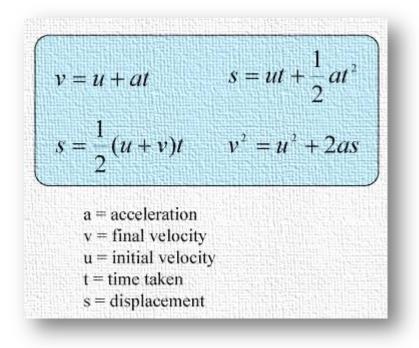


(9) Acceleration:





(10) Equations of Motion:-



NOTE: - These equations are applicable only if the body is getting displaced in a straight path or horizontally.