

SUBJECT:

PHYSICS

CLASS:

SENIOR SECONDARY SCHOOL **2**

TERM:

FIRST

SCHEME OF WORK

WEEK	TOPIC
1.	Position, distance and displacement.
2.	Scalar and vector Quantities-Concept of scalar and vector quantities, vector representation etc.
3.	Derivation of equation of linear motion, Motion under gravity, calculation using these equations.
4.	Projectiles and its application.
5.	Newton Laws of Motion - Conservation of Linear momentum and collision energy.
6.	Equilibrium if Forces - principle of moment, conditions for equilibrium of a Rigid Bodies etc.
7.	Equilibrium if Forces - centre of gravity and stability, couple
MID-TERM PROJECT	
8.	Simple Harmonic Motion- definition, speed, amplitude, displacement, acceleration, etc.
9.	Simple Harmonic Motion - Energy of simple harmonic motion and forced vibration, Resonance.
10.	Machines - Types and Examples
11.	Machines - Calculation.
12.	Revision
13.	Examination

WEEK 1

POSITION, DISTANCE AND DISPLACEMENT

CONTENTS

- Position
- Distance
- Displacement

POSITION

The position of an object in space or on a plane is the point at which the object can be located with reference to a given point (the origin).

DISTANCE

This is a measure of the separation between two points. It has magnitude but no direction. Hence, it is a scalar quantity

DETERMINATION OF DISTANCE BETWEEN TWO POINTS

If two points A and B located in a plane are defined by two ordered pair of...