CAMBRIAN PUBLIC SCHOOL , KANKE ROAD RANCHI

Subject : PHYSICS

Class: IX SESSION-(2024-25)

SL no	Month	Name of the chapter	Learning outcome
1.	April & May	Motion	Concepualize the meaning of
			terms rest and motion by
			considering a reference point.
			Differentiate scalar & vector
			quantities.
			Distinguish distance from
			displacement with the help of
			examples.
			Distinguish between uniform &
			non-uniform motion.
			Develop definitions for speed and
			velocity and differentiate between
			them.
			Solve numerical problems based
			on speed, time and distance.
2.	June	Motion	Develop meaning of acceleration.
			Distinguish uniform and nonuniform
			acceleration
			Solve numerical problems
			Plot and interpret distance time &
			velocity time graphs.
			 Derive the relations v = u + at,
			$s = ut + 1/2 at^2 & v^2 = u^2 + 2as$
			Solve numerical problems using
			above equations
			Comprehend uniform circular
			motion
			Analyse it as accelerated motion
			because direction is constantly
			changing.
3.	July , Aug	Force	Develop meaning of force
	7, 7		Classify force as balanced and
			unbalanced forces using examples.
			Develop meaning of term inertia
			and its relation with mass.
			Explain the meaning of inertia of
			rest and inertia of motion.
			Apply the concept to daily life
			situation.
			Experimentally develop statement
			of first law of motion
			of first law of filotion

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			Develop the meaning of
			momentum and apply to daily life
			situation.
4.	Sept	Force	State the second law of motion in
			terms of rate of change of momentum.
			Derive mathematically second law
			of motion, F = ma
			Develop the definition for unit of
			force
			Relate the law with inertia
			Solve numerical problems
			Comprehend action and reaction
			forces
			Experimentally deduce the
			statement of third law of motion
			Explain daily life phenomena,
			using third law of motion
			Develop statement of law of
			conservation of momentum
			Derive the law mathematically and
			explain daily life situations based
			on the same
			Solve numerical probelms
5.	October, November	Gravitation	Conceptualize the meaning of
	,		force of gravitation as the force of
			attraction between bodies.
			State the law of gravitation
			Mathematically represent the law
			gravitation
			Develop definition of gravitational
			constant
			Correlate the importance of this
			law in connection with the Earth
			revolving around sun
			Solve numerical problems
			Describe free fall
			Comprehend the meaning of force
			of gravity
			Deduce meaning of acceleration
			due to gravity 'g'
			 Derive an expression for 'g'.
	Dec& Jan		Revision, Important Numericals ,PYQ,S
	2000 3011	l .	nevision, important Numericals in 1975