

NEW ERA HIGH SCHOOL, PANCHGANI

CLASS – IX PHYSICS ASSIGNMENT - III

Unit	MOTION
Topics	Equations of motion, Numerical on equations of motion and graphical representation of motion.
Time Line	Total: 1 week (11 th May to 16 th May, 2020)
Objective	To develop critical thinking, comprehension, understanding and problem solving.
Learning Outcomes	Students will be able to solve the numerical related to all 3 equations of motion and graphical representation of motion.
Transaction Methodology	Transaction should proceed in the following manner- <i>Introduction of the topic</i> - PPT and Digital Content on Diksha App: Open the Diksha App click on English Medium > Click on class 9>Under Science click on class 9 Science> Click on Lesson Motion> Watch video > After watching video click on explanation videos, please go through following videos, <ul style="list-style-type: none"> • Physics motion part – 12 (Equation of motion) • Physics motion part – 13 (Numerical equation of motion) After watching the video solve the multiple assessment activity questions which are given below.
Assessment of qualifying knowledge	<p>I. Multiple Assessment Activity</p> <ol style="list-style-type: none"> 1. A train at a speed of 90 km/h, brakes is applied so as to produce a uniform acceleration of -0.5 ms^{-2}. Find how far the train will go before it is brought to rest. 2. A trolley while going down an inclined plane, as an acceleration of 2 cm/s^2. What will be its velocity 3 seconds after the start? 3. A racing car has a uniform acceleration of 4 ms^{-2}. What distance will it cover in 10 seconds after start? 4. A scooter moving at a speed of 10 m/s is stopped by applying breaks which produces a uniform acceleration of, -0.5 m/s^2. How much distance will be covered by the scooter before it stops? <p>II. Subject enrichment activity: Draw a graph for the following: a)Uniform acceleration b)Constant speed c)Uniform retardation d)Non uniform retardation</p>
Assignment Submission	Students should solve above mentioned I.. Multiple Assessment Activity (based on equations of motion) II. Subject enrichment Activity (based on graphical representation of motion) Solve the questions and write their correct answers on the ruled sheet/note book, scan and send in the PDF format and merge in sequence and e-mail on balaji.molugurvar@nehs.in on or before 16 th of May,2020. For any queries you may contact me on 7780562313. The hard copy to be submitted as and when you report to the school. Please note the above activities are part of your Internal Assessment and is mandatory. Note: Please write your name, class and division on every page and even on the Subject line of the email without fail.
Resources	1. Diksha App 2. NCERT Science Text Book