

UrbanPromise Academy
Engaging In The Pursuit of Excellence

Lesson Plan

Subject: Physics Grade: 11 Instructor: Nogal Week: 11/16-11/20

		Monday	Tuesday	Wednesday	Thursday	Friday
NJCCCS:		5.7.12A, 12B, 5.3.12A, 12B, 12C, 12D 5.4.12A				
Essential Question/Focus:		Continue kinematics – acceleration, free-fall and acceleration due to gravity				
Goals/Skills:		Review acceleration, using proper conversions	Introduce free-fall word problems with acceleration due to gravity	No class	Lab Day	Review all kinematics – velocity, acceleration, free-fall with acceleration due to gravity
P r o c e d u r e s	Anticipatory Set	<p>“What are the formulas you can use for finding acceleration?”</p> <p>Review the remainder of the acceleration homework. Make sure that the students understand how to solve the algebraic formulas. Watch Bill Nye videos on Motion Work on remainder of acceleration packet as groupwork in class</p> <p>Review main formulas of acceleration</p> <p>Class participation Homework at 80% completion</p>	<p>“How do you think free-fall towards the earth might affect acceleration?”</p> <p>Introduce free-fall and acceleration due to gravity word problems and associated formulas via powerpoint. Provide examples on the board.</p> <p>Review how free-fall word problems work.</p> <p>Assign free-fall word problems due on Friday.</p> <p>Class notetaking participation Homework at 80%</p>		<p>Introduce the lab regarding vectors and direction</p> <p>Have students use meter sticks/yardsticks and rulers to apply measurements and vectors to group activities in following directions. The students will be creating a vector treasure map for the other groups to follow on a treasure hunt. This lab will review vectors with the students and it will also demonstrate to the students the necessity of being precise in science.</p> <p>Assign the questions at the end of the lab for the students to complete as homework.</p> <p>Class participation Behavior during the laboratory Lab completion at 80%</p>	<p>“What is the acceleration due to gravity?”</p> <p>Check that all homework has been completed. Do a review of all the important information thus far in kinematics.</p> <p>Alert students to test coming up in next week, commulative including velocity, acceleration, conversions, and free falling</p> <p>Class participation Homework completion</p>
	Lesson Development					
	Lesson Closure					
	Authentic Assessment					
Materials/Resources Needed		Metrics/homework handouts Notebooks	Notebook Homework assignment		Lab experiment papers Meter sticks/yard sticks	Handouts for review