WESTSIDE HIGH SCHOOL

Level Up: RISE to Your Potential

24-25 Lesson Plan Template Teacher: Asma Akhter Subject: On level physics A

Week of: DATE 12/16/2024	Monday 12/16	Tuesday 12/17	Wed./Thurs 12/18&12/19	Friday 12/20
TEKS	P7.A Calculate and explain work and power in one dimension and identify when work is and is not being done by or on a system.	P7.A Calculate and explain work and power in one dimension and identify when work is and is not being done by or on a system.	P.5D Describe and analyze acceleration in uniform circular and horizontal projectile motion in two dimensions using equations	P.5D Describe and analyze acceleration in uniform circular and horizontal projectile motion in two dimensions using equations
Learning Objective	SWBAT explain and calculate work and power in one-dimension within a system.	SWBAT explain and calculate work and power in one-dimension within a system.	SWBAT investigate and analyze uniform circular motion and centripetal acceleration in two dimensions using equations.	SWBAT investigate and analyze uniform circular motion and centripetal acceleration in two dimensions using equations.
Higher Order Thinking Questions	• How can we create a model to investigate impulse and momentum in physical systems? Draw a picture to	Is momentum and kinetic energy conserved in collisions? Explain with your real-life examples.	How do we analyze momentum of inelastic collisions if they collide at right angles to each other?	• What is a position vs. time graph • and why it is important? • ➢ How can you differentiate

	demonstrate the situation.			between • distance and displacement? • ➢ How can the motion of an object • be described using position vs. time graph?
Agenda	• Do now DOL for work and power • work with the review • Quizizz	• Do now DOL from energy • Work with review • Quizizz.com • Reading handout when the finish exam early	• Do now DOL for circular motion • Review for test • Quizizz.com • • Reading handout when the finish exam early	• Do now DOL for circular motion • Review for test •Quizizz.com •Reading handout when the finish exam early
Demonstration of Learning	Given 5 questions, students investigate and develop models to analyze impulse and momentum in physical systems such as automobile safety features, athletics and rockets by answering at least 4 of 5 questions correctly.	Given 5 questions, students analyze and calculate conservation of momentum in inelastic and elastic collisions using models, diagrams, and simulations by answering at least 4 of 5 questions correctly.	Given 5 questions, students analyze and calculate conservation of momentum in inelastic collisions using models, diagrams, and simulations by answering at least 4 of 5 questions correctly.	Given 5 questions, students will analyze different types of motion by generating and interpreting position versus time graphs, by answering at least 4 of 5 practice questions correctly.
Intervention & Extension	Extra time Extended time	Extra time Extended time	At least finish 50% and one extra day	Extended time or less number of questions
Resources	HISD resources and gizmos	District resources And gizmos	District resources and quizizz	District resources