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 11/11/2024	Monday 11/11	Tuesday 11/12	Wed./Thurs 11/13&11/14	Friday 11/15
TEKS	P.7B: Investigate and calculate mechanical, kinetic, and potential energy of a system. Work and Energy: Total Mechanical Energy	P.7B: Investigate and calculate mechanical, kinetic, and potential energy of a system. Work and Energy: Total Mechanical Energy	P.7B: Investigate and calculate mechanical, kinetic, and potential energy of a system. Work and Energy: Total Mechanical Energy	P.7B: Investigate and calculate mechanical, kinetic, and potential energy of a system. Work and Energy: Total Mechanical Energy
Learning Objective	SWBAT investigate and calculate the kinetic, potential and total mechanical energy of a system in various scenarios.	SWBAT investigate and calculate the kinetic, potential and total mechanical energy of a system in various scenarios.	SWBAT investigate and calculate total mechanical energy of a system in various scenarios including renewable energy systems.	SWBAT investigate and calculate the kinetic, potential and total mechanical energy of a system in various scenarios.
Higher Order Thinking Questions	• What is the relationship between potential energy, kinetic energy, and total mechanical energy?	• What is the relationship between potential energy, kinetic energy, and total mechanical energy?	• A 2 kg object is lifted to a height of 5 meters above the ground. What is its gravitational potential energy? (use g=9.81 m/s2) • A 3 kg object is	Test one for C3

			moving with a velocity of 4 m/s. What is its kinetic energy? • How are other types of potential energy calculated? • How can renewable energy have the potential to do work?	
Agenda	• Do Now • Student Activity • Gizmos • DOL • Quizizz.com	• Do now • Gizmos • DOL • Quizizz.com	• Do now • Review for the test using live Quizizz • DOL	Test one
Demonstration of Learning	Given 5 questions, students will investigate and calculate the kinetic, potential and total mechanical energy of a system in various scenarios by answering at least 4 of 5 questions correctly.	Given 5 questions, students will investigate and calculate the kinetic, potential and total mechanical energy of a system in various scenarios by answering at least 4 of 5 questions correctly.	Given 5 questions, students will investigate and calculate total mechanical energy of a system in various scenarios including renewable energy systems by answering at least 4 of 5 questions correctly.	Test one
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