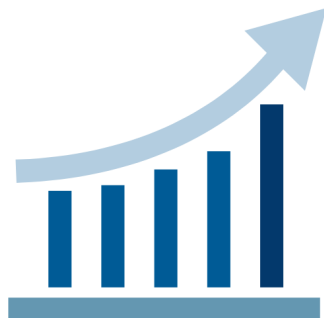




WESTSIDE HIGH SCHOOL

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 $g=9.81 \text{ m/s}^2$) - 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