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** **04/14/2025**	**Monday 04/14**	**Tuesday 04/15**	**Wed./Thurs 04/16- 04/17**	**Friday 04/18**
TEKS	P.8C: Investigate and analyze characteristics of waves, including velocity, frequency, amplitude, and wavelength, and calculate using the relationships between wave speed, frequency, and wavelength.	P.8C: Investigate and analyze characteristics of waves, including velocity, frequency, amplitude, and wavelength, and calculate using the relationships between wave speed, frequency, and wavelength. Waves.	**P.8C: Investigate and analyze characteristics of waves, including velocity, frequency, amplitude, and wavelength, and calculate using the relationships between wave speed, frequency, and wavelength.**	N

	Waves.			
Learning Objective	: SWBAT calculate and analyze speed, frequency and wavelength for mechanical waves.	SWBAT calculate and analyze speed, frequency and wavelength for electromagnetic waves	**SWBAT calculate and analyze speed, frequency and wavelength for electromagnetic waves**	O
Higher Order Thinking Questions	A fly buzzes by your ear and a sound is produced by the beating of its wings at a rate of about 550 wing beats per second. What is the frequency, in Hertz, of the sound wave?	An elephant produces a 10 Hz sound wave and the wavelength of this infrasonic sound wave is 34.5 meters. What is the speed of sound produced by this sound wave?	Most people can detect frequencies as high as 20,000 Hz. Assuming the speed of sound in air is 345 m/s, determine the wavelength of the sound corresponding to this upper range of audible hearing.	Sc

Agenda	• Do Now • Student Activity (HISD) • DOL	• Do Now • Student's activity with Review for the District test • DOL	• Do now • Student Activity with review • District 6 weeks test	h
Demonstration of Learning	Given 5 questions, students will calculate and analyze speed, frequency and wavelength for mechanical waves by answering at least 4 of 5 questions correctly.	Given 5 questions, students will calculate and analyze speed, frequency and wavelength for mechanical waves by answering at least 4 of 5 questions correctly.	Given 5 questions, students will calculate and analyze speed, frequency and wavelength for mechanical waves by answering at least 4 of 5 questions correctly.	oo
Intervention & Extension	Extra time At least finish 50% and one extra day	Extra time At least finish 50% and one extra day	Extra time At least finish 50% and one extra day	

Resources	• District resources and teacher's google slides teacher's notes and formulas	• District resources and teacher's google slides teacher's notes and formulas	• District resources and teacher's google slides • teacher's notes and formulas	L