



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 04/28/2025	Monday 04/28	Tuesday 04/29	Wed./Thurs 04/30- 05/01	Friday 04/25
TEKS	P.8E: Compare the different applications of the electromagnetic spectrum, including radio telescopes, microwaves, and x-rays.	P.8E: Compare the different applications of the electromagnetic spectrum, including radio telescopes, microwaves, and x-rays.	P.8D: Investigate behaviors of waves, including reflection, refraction, diffraction, interference, standing wave, the Doppler effect, polarization, and superposition.	No
Learning Objective	. SWBAT research and elaborate on the different	SWBAT research and elaborate on the different	SWBAT investigate and elaborate on the Doppler	SC

	applications of the electromagnetic spectrum such as radio telescopes and microwaves	applications of the electromagnetic spectrum such as radio telescopes and microwaves	effect and resonance by applying them to real-life situations.	
Higher Order Thinking Questions	Why are radio telescopes used to detect objects in space and what makes radio waves suitable for this?	. What is the primary function of a radio telescope? Explain it with some everyday examples.	Did the loudness of the sounds change in some tests? If so, give examples and explain why the loudness changed.	h
Agenda	<ul style="list-style-type: none"> • Do Now • Student Activity (HISD) • DOL 	<ul style="list-style-type: none"> • Do Now • Student's activity • DOL 	<ul style="list-style-type: none"> • Pre lab • Lab • Post lab 	oo

Demonstration of Learning	<p>. Given 5 questions, students will research and elaborate on the different applications of the electromagnetic spectrum such as radio telescopes and microwaves by answering at least 4 of 5 questions correctly.</p>	<p>Given 5 questions, students will research and elaborate on the different applications of the electromagnetic spectrum such as radio telescopes and microwaves by answering at least 4 of 5 questions correctly.</p>	<p>. Given 5 questions, students will investigate and elaborate on the Doppler effect and resonance by applying them to real-life situations by answering at least 4 of 5 questions correctly.</p>	<p>I</p>
Intervention & Extension	<p>Extra time At least finish 50% and one extra day</p>	<p>Extra time At least finish 50% and one extra day</p>	<p>Extra time At least finish 50% and one extra day</p>	
Resources	<ul style="list-style-type: none"> • District resources and teacher's google slides <p>teacher's notes and formulas</p>	<ul style="list-style-type: none"> • District resources and teacher's google slides <p>teacher's notes and</p>	<ul style="list-style-type: none"> • teacher's google slides • teacher's notes and formulas • teacher's created lab hand out 	

		formulas		
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