WESTSIDE HIGH SCHOOL
Level Up: RISE to Your Potential

24-25 Lesson Plan Template   Teacher: <mark>Asma Akhter</mark>   Subject: <mark>On level physics A</mark>

Week of: <mark>DATE</mark> 01/06/2025	Monday 01/06	Tuesday 01/07	Wed./Thurs 01/08- 01/09	Friday 12/20
TEKS		P.6A Use scientific notation and predict how the magnitude of the electric force between two objects depends on their charges and the distance between their centers using Coulomb's law.	P.6A Use scientific notation and predict how the magnitude of the electric force between two objects depends on their charges and the distance between their centers using Coulomb's law	P.6A Use scientific notation and predict how the magnitude of the electric force between two objects depends on their charges and the distance between their centers using Coulomb's law
Learning Objective	O	SWBAT use scientific notation to represent charges and distances in Coulomb's law calculations.	SWBAT investigate and use calculations to predict the magnitude of the electric force between objects based on their charges and the distance between their centers using Coulomb's law.	SWBAT investigate and use calculations to predict the magnitude of the electric force between objects based on their charges and the distance between their centers using Coulomb's law.
Higher Order	ScH	*What Do You		Three charges are

Thinking Questions		Think? * Why is using scientific notation important? How is coulomb's organized regarding due to its Chagres and the distance between two charges? Explain each variable from their mathematical relation in the formula of coulomb's law.	● What would the Force be when the distance is doubled, tripled, and quadrupled? ● How can we use Coulomb's Law to investigate charges?	arranged in a straight line: q1 = 3.0µC q2 = -2µC q3 = 1 µC. The distance between q1 and q2 is 0.2 meters, and the distance between q2 and q3 is 0.4 meters. Calculate the net force on charge q2 and q3.
Agenda	O	● Do now ● Student's activity ● DOL ● Writing to learn	● Do now ● Gizmos ● DOL ● Quick write	● Do now ● Student activity ● Practice questions ● DOL ● Quick write
Demonstration of Learning	L	Given 5 questions, students will use scientific notation to represent charges and distances in Coulomb's law calculations by answering at least 4 of 5 questions correctly.	Given 5 questions, students will investigate and use calculations to predict the magnitude of the electric force between objects based on their charges and the distance between their centers using Coulomb's law by answering at least 4 of 5 questions correctly.	Given 5 questions, students will investigate and use calculations to predict the magnitude of the electric force between objects based on their charges and the distance between their centers using Coulomb's law by answering at least 4 of 5 questions correctly.

Intervention & Extension		Extra time Extended time	At least finish 50% and one extra day	Extended time or less number of questions
Resources		District resources And gizmos	District resources and teacher's google slides	District resources