Unit 1 Particles Comprise the Universe

Learning Target Log 1.2 Law of Gravitational + Electrostatic Forces

Student First and Last Name/ Nombre de Apellido:

Subject/Clase: Physics

Period/Periodo:

Standards/Estandar: **PS 2-4.** Use mathematical representations of Newton's Law of Gravitation and Coulomb's Law to describe and predict gravitational and electrostatic forces between objects; and, **2-6.** Communicate scientific and technical information about why the molecular-level structure is important in the functioning of the designed materials.

Essential Question/Pregunta Esencial: **How do forces interact throughout the universe and affect human communication?**

Before Unit Starts/Inicio de unidad: My goal for this unit is (Score:)____ / Mi Ojbectivo de la unidad es_____

Level / Nivel	4	3	2	1	NR
Description Descripcion Mastery Rubric	"I could teach someone else how to do this" "Podría enseñarle a alguien más cómo hacer esto"	"I can do it but am not comfortable teaching it" "Puedo hacerlo pero no me siento cómodo enseñándolo"	"I am clear what I need to know but I still have a lot of questions" "Tengo claro lo que necesito saber, pero aún tengo muchas preguntas"	"I am not clear what I need to know" "No tengo claro lo que necesito saber"	Need Resource Necesita Recursos "I need more support with this" "Necesito más apoyo con esto"

Standard Estandar	Learning Targets Objetivo de aprendizaje	Nivel Fecha	Evidence Evidencia	Level Date	Evidence Evidencia	Level Date	Evidence Evidencia
PS 2-4. Use mathematical representations of **Newton's Law** of **Gravitation** and **Coulomb's Law** to describe and predict gravitational and **electrostatic forces** between objects.	1.2a. I can measure the gravitational attraction between object mass and distance. Puedo...	**Date** **11/16-17**	**A1 Red Bull Free Fall**		**A2 Mission to Planet X - Phase 1 (Part 1-2)**		**A2 Mission to Planet X - Phase 1 (Part 3-4)**
	1.2b. I can measure the electrostatic force between object ecstatic force and distance.		**A3 Mission to Planet X - Phase 2**		**A4 Mission to Planet X - Moon Pod** (Special Assignment)		**A5 Law of Gravitation**

PS 2-6. Communicate scientific and technical information about why the **molecula**r-level **structure** is important in the functioning of the designed **materials**.	1.2c. I can explain how information for how physical properties of materials are based on molecular-level structures.		Matches assignment from 1.1 A4 *Nano@Stanford			
	1.2d. I can explain how particle electrical forces determine its use in the macroscopic human world.					

Reflections and Self Monitoring/Reflexiones y Autocontrol

Instructions/Instrucciones:

1. Complete with your Advisory teacher during your Wednesday check-ins/Completa con el profesor de Asesoría durante tus check-ins los miércoles
2. Add rows below as needed/Agregue filas a continuación según sea necesario

3. Answer all questions in complete sentences/Responda todas las preguntas en oraciones completas

Date/Fecha

	I am satisfied/not satisfied with my current grade because… Estoy satisfecho / no satisfecho con mi calificación actual porque ...
	My Plan to Maintain/Improve my grade is… Mi plan para mantener / mejorar mi calificación es ...

Individualized Action Plan/Plan de acción individualizado:

Date/Fecha	What Learning Target do I need to work on? ¿En qué objetivo de aprendizaje necesito trabajar?	My current Action Plan for improvement (must be measurable) Mi plan de acción actual para mejorar (debe ser medible)	Evidence of follow-through Evidencia de seguimiento
