Learning Targets / Success Criteria: Unit: Physics Data Team: Adv Science

Priority Standard:	MS-PS2-2: Plan an investigation to provide evidence that the change in an object's motion depends on the sum of the forces on the object and the mass of the object HS-PS2-4: Use mathematical representations of Newton's Law of Gravitation and Coulomb's Law to describe and predict the forces between objects. Supporting: HS-PS3-1 Create a computational model to calculate the change in the energy of one component in a system when the change in energy of the other component(s) and energy flows in and out of the system are known.
Overarching Skills:	Developing TQ, Identifying Variables, Creating a Hypothesis
WALT:	We are learning to develop testable questions that represent cause-effect relationships of two variables, in which the dependent variable is measurable
Success Criteria:	I can identify what makes a question testable vs non testable I can identify the cause-effect relationship of a testable question I can create a testable question I can create testable questions that represent the cause-effect relationship of two variables I can create a testable question representing the cause-effect relationship of two variables in which the dependent variable is measurable.
WALT:	We are learning to apply our understanding of variables (IV, DV and Controlled V) and controlled test groups to the development of a reliable experiment.
Success Criteria:	I can identify the independent variable of an experiment I can identify the dependent variable of an experiment I can identify the controlled variables of an experiment I can identify the controlled test group of an experiment I can design an experiment with valid independent and dependent variables I can design an experiment using controlled variables to increase the reliability of my results I can design an experiment that includes a controlled test group to increase the reliability of my results
WALT:	We are learning to create a hypothesis to predict the outcome of our experiment
Success Criteria:	I can make a prediction about the outcome of an experiment

	I can make a prediction about how the IV will impact the DV of an experiment I can use background information to justify my prediction about how the IV will impact the DV of my experiment
WALT:	
Success Criteria:	