AP PHYSICS 1

Science Practices

Practice 1	Practice 2	Practice 3
Creating Representations 1 Create representations that depict physical phenomena.	***Mathematical Routines*** 2 Conduct analyses to derive, calculate, estimate, or predict.	***Scientific Questioning and Argumentation*** 3 Describe experimental procedures, analyze data, and support claims.
SKILLS		
1.A Create diagrams, tables, charts, or schematics to represent physical situations.	2.A Derive a symbolic expression from known quantities by selecting and following a logical mathematical pathway.	3.A Create experimental procedures that are appropriate for a given scientific question.
1.B Create quantitative graphs with appropriate scales and units, including plotting data.	2.B Calculate or estimate an unknown quantity with units from known quantities, by selecting and following a logical computational pathway.	3.B Apply an appropriate law, definition, theoretical relationship, or model to make a claim.
1.C Create qualitative sketches of graphs that represent features of a model or the behavior of a physical system.	2.C Compare physical quantities between two or more scenarios or at different times and locations in a single scenario.	3.C Justify or support a claim using evidence from experimental data, physical representations, or physical principles or laws.
	2.D Predict new values or factors of change of physical quantities using functional dependence between variables.	