

Physics Syllabus

Year	2019-2020
Required Resources	Textbooks/Workbooks (to include composition books) MackinVIA
Process Skills	<ul style="list-style-type: none"> - Design and implement investigative procedures - Organize and evaluate data - Make inferences from charts, tables, and graphs - Communicate valid conclusions supported by data
Syllabus	<p>1st Nine Weeks <i>Algebra Skills Pre-Test</i> Physics Skills: Significant Figures, Scientific Notation, Dimensional Analysis, Manipulation of Formulas, Precision, and Accuracy Kinematic in One Dimension and Graphing Motion Two Dimensional and Circular Motion</p> <p>2nd Nine Weeks Newton's Laws (Vectors, 2D Free Body Diagram, Mass v. Weight) Universal Gravitation (Free Body Diagram, Mass v. Weight) Conservation of Energy (Work and Power, PE and KE)</p> <p>3rd Nine Weeks Conservation of Momentum (Collision Theory: Elastic and Inelastic) Mechanical Waves and Electromagnetic Waves Optics and Snell's Law Thermodynamics</p> <p>4th Nine Weeks Electrostatics (Coulomb's Law) Current Electricity (Ohm, R-Series, Parallel, Power) Magnetic Fields Atomic, Nuclear, and Quantum Physics Physics is Everywhere</p>

