

**REDBANK VALLEY SCHOOL DISTRICT
SCIENCE CURRICULUM MAP**

PHYSICS I: APPLIED & ACADEMIC

	CHAPTER									
	TOPICS	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY
PA SCIENCE & TECHNOLOGY STANDARDS	UNIFYING THEMES	Intro; 1-D Motion; 2-D Motion	2-D Motion/Vectors; Forces	Work/Energy; Momentum; Collisions	Rotational Motion	Fluid Mechanics; Heat	Thermodynamics; Vibrations/Waves; Sound	Light	Electric Charges; Current	Circuits; Magnetism
	INQUIRY & DESIGN	Measurement Lab; Velocity Lab; Free Fall Lab	Force Table Lab; Friction Lab	Conservation of Energy Lab; Work/Power Lab; Momentum Lab; Simple Machines Lab	Radians Activity; Centripetal Force Lab; Torque Lab	Buoyancy Lab; Bernoulli Activity	Hooke's Law Lab; Pendulum Lab	Mirrors Labs; Refraction Lab; Color Investigation	Electric Current Lab	Electric Circuit Lab
	BIOLOGICAL SCIENCES									
	PHYSICAL SCIENCE, CHEMISTRY, PHYSICS	Metric System; Quantitative Analysis; Speed, Velocity, Acceleration	Vectors, Projectiles, Forces, Friction; Laws of Motion	Work, Energy, Power, Momentum Collisions, Simple Machines	Angular Speed, Velocity, Acceleration, Centripetal Acceleration & Force, Gravity, Torque	Buoyancy, Fluid Pressure, Bernoulli, Gas Laws, Heat, Thermal Expansion, Phase Change	Thermodynamics; Heat Engines; Entropy; Hooke's Law; Pendulums; Sound	Electromagnetic Spectrum; Reflection; Refraction; Diffraction, Color, Interference, Uses, polarization	Electric Charge; Coulomb's Law; Current Resistance	Circuits; Resistors; Magnetic Fields
	EARTH SCIENCES									
	TECHNOLOGY EDUCATION									
	SCIENCE, TECHNOLOGY, AND HUMAN ENDEAVORS									

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PA ENVIRONMENT & ECOLOGY STANDARDS	CHAPTER									
	TOPICS	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY
	WATERSHEDS & WETLANDS									
	RENEWABLE & NONRENEWABLE RESOURCES									
	ENVIRONMENTAL HEALTH									
	AGRICULTURE & SOCIETY									
	INTEGRATED PEST MANAGEMENT									
	ECOSYSTEMS AND INTERACTIONS									
	THREATENED, ENDANGERED AND EXTINCT SPECIES									
	HUMANS & ENVIRONMENT									
	ENVIRONMENTAL LAWS									