

Information for Course Syllabus

Name of Course: AP Physics 2

Grade Level: 10-12

School: ORHS

Major Assignments: Post AP Exam PBL

Field Trips: None

How can parents access instructional materials? Canvas

AP Physics 2

2021-2022

Term 1

Electrostatics	Electric Forces, Charges, Conservation of Charge
	Coulomb's Law
	Superposition
	Electric Fields
	Application of Fields and Electric Potential

Current and Circuits	Potential
	Capacitance
	Current and Ohm's Law
	Electrical Power
	Schematics and Kirchhoff's Rules
	Series and Parallel Circuits
	Complex Circuits, Ohm's and Kirchhoff's Law Applications
	RC Circuits, Ohm's and Kirchhoff's Law Applications

AP Physics 2

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Term 1

Magnetism	Magnetism and Magnetic Fields
	Magnetic Fields and Current
	B and The Magnetic Force
	Electricity from Magnetism
	Faraday's Law
	Motors, Generators, and Mutual Inductance
	Transformers

Thermodynamics	The Atomic Model and Thermal Expansion
	Heat and Heat Transfer
	Energy Transformations, E_{TH} and Temperature
	Heat and the 1 st Law of Thermodynamics
	Entropy and the 2 nd Law of Thermodynamics

AP Physics 2

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Term 2

Fluids	Fluids, Fluid Statics, the Buoyant Force
	Fluid Dynamics
	Viscosity

Optics	Reflection and Plane Mirrors
	Geometric Optics: Refraction and Snell's Law
	Geometric Optics: Speed of Light and Total Internal Reflection
	Geometric Optics: Concave Mirrors
	Geometric Optics: Convex Mirrors
	Geometric Optics: Convex Lenses
	Geometric Optics: Concave Lenses and Aberrations
	Physical Optics: Interference
	Physical Optics: Diffraction
	Physical Optics: Lasers

AP Physics 2

2021-2022

Term 2

Quantum, Atomic, and Nuclear Physics	Relativity
	The Photoelectric Effect
	Quantum Mechanics
	Nuclear Physics

AP Exam Review

PBL