

Science 12

Physics

1201	1202	1203	1204	1205
Kinematics Units, Scalars, and Vectors Units Scalars Vectors Measurement of Length Distance Displacement Rate of Velocity Change Speed Acceleration Acceleration Due To Gravity Free Fall Fields and Models Fields Models	Dynamics Newton's First and Second Laws of Motion Newton's First Law of Motion Newton's Second Law of Motion Gravity Gravitational Force Gravitational Force Field Uniform Circular Motion Centripetal Acceleration Centripetal Force Newton's Third Law of Motion Action-Reaction Conservation of Momentum Kepler's Laws of Planetary Motion Kepler's First Law of Planetary Motion Kepler's Second Law of Planetary Motion Kepler's Third Law of Planetary Motion	Work and Energy Type and Source of energy Mechanical Energy Forms of Energy Conservation of Energy, Power, and Efficiency Conservation of Energy Power Efficiency Heat Energy Specific Heat Latent Heat Laws of Thermodynamics	Introduction to Waves Energy Transfer Pulses Periodic Waves Wave Phenomena Reflection Refraction Diffraction Interference Sound Waves Beats Resonance Doppler Effect Shock Waves The Speed of Sound	Mirrors and Lenses Speed of Light Speed Properties Mirrors and Lenses Mirrors Lenses Phenomena and Models Phenomena of Light Models of Light
1206	1207	1208	1209	1210
Static Electricity Electric Charges The Nature of Charges The Transfer of Charges Electric Fields Configurations Natural Fields Electric Potential Potential and Fields Potential and Energy Examples	Current Electricity Current Concepts Electromotive Force Fluid Flow Electron Flow Resistance Resistors Resistivity Circuits Ohm's Law Series Circuits Parallel Circuits	Magnetism Fields and Forces Fields Forces Electromagnetism The Electromagnetic Field Currents and Magnetism Electromagnetic Induction Electron Beams Magnetic Deflection The Cathode-Ray Tube	Atomic and Nuclear Physics Quantum Theory Electromagnetic Radiation Matter Waves Atomic Spectra Bohr Model Nuclear Theory Building Blocks of the Nucleus Properties of the Nucleus Nuclear Reaction Nuclear Fission Fusion Nuclear Reaction Applications	Review Mechanics Kinematics Dynamics Energy Wave Motion Waves Light Sound Electricity Sources, Fields, and Forces Circuits Modern Physics The Planetary Atom Emission Spectra and Quantized Energy The Bohr Atom Duality Nuclear Energies