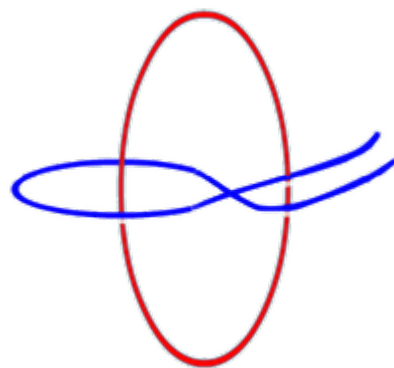


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Early Bird Physics Olympiad: Modules

Rest and Motion I: (12 Hrs) Introduction and Mathematical Concepts, Kinematics in 1D, Kinematics in 2D

Dynamics in Linear Motion I: (15 Hrs) Forces and Newton's Laws of Motion, Impulse and Momentum, Work and Energy

Rotational Mechanics I: (10 Hrs) Dynamics of Uniform Circular Motion, Rotational Kinematics, Rotational Dynamics

SHM Waves and Oscillations I: (12 Hrs) Simple Harmonic Motion and Elasticity, Waves and Sound, The Principle of Linear Superposition and Interference Phenomena

Fluids and Laws of Gases I: (12 Hrs) Fluids, Buoyancy Force, The Ideal Gas law, Kinetic theory of Gases

Heat and Thermodynamics I: (10 Hrs) Heat and Temperature, The Transfer of Heat, Laws of Thermodynamics

Static Electricity I: (12 Hrs) Electric Forces, Electric Field, Potential Energy, Potential Difference, Capacitor and Dielectrics

Current Electricity I: (12 Hrs) Electric Circuits, Internal Resistance, Measurement of Currents, Alternating Current Circuits

Magnetism I: (12 hrs) Magnetic Forces, Magnetic Field, Electromagnetic Induction, Generator

Light and Optics I: (15 Hrs) Optical Phenomena, Mirrors, Optical Instruments and Lenses, Interference, Wave nature of Light

Modern Physics I: (18 Hrs) Nature of Atom, Particle and Waves, Ionizing Radiation, Nuclear Energy, Elementary Particle, Nuclear Physics, Radioactivity, Special Relativity