



2021 Syllabus

Objective: to provide a general idea about the concepts that may appear in the competition

Scope: the syllabus covers the major concepts that are critical to holistic understanding of Physics.

What it is not: the syllabus is not meant to be exhaustive or detailed.

Secondary Junior (Grades 7 - 9); **Secondary Senior** (Grades 10 - 12)

Areas	Concepts
Motion	Distance; Displacement; Time; Velocity; Speed; Acceleration; Vector; Direction; Resistance
Forces	Energy; Work; Power; Machine; Pressure; Action-reaction; Inertia; Acceleration; Resistance; Friction
Heat	Heat; Energy; Temperature; Kinetic particle theory; Phase transition; Heat capacity; Transfer
Charges	Charges; Electron; Current; Potential; Resistance; System; Circuit; Magnetism
Waves	Wave; Wavelength; Frequency; Spectrum; Light; Sound; Property; Medium; Vector
Others	...

