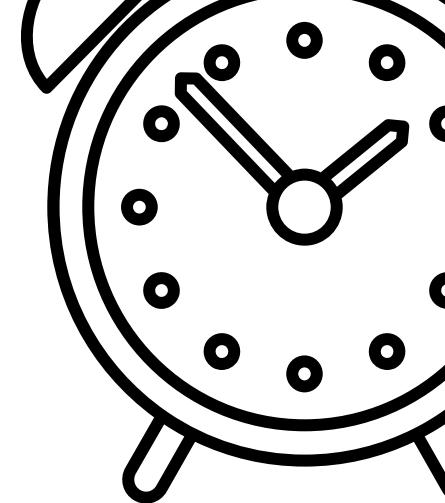


AMSAT

PHYSICS SYLLABUS



Depth of Topics will be around CBSE, ICSE, NSO & IJSO examination standard

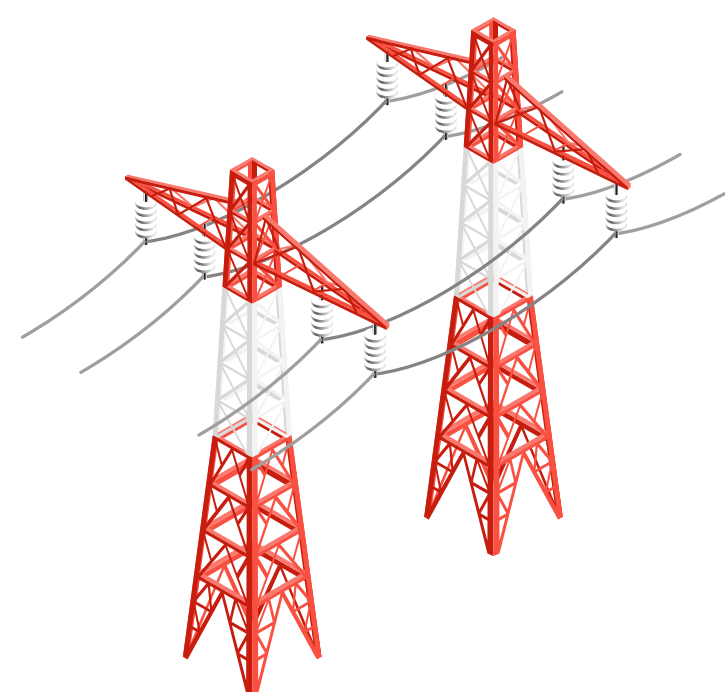
MATHEMATICAL PHYSICS

Basic straight line & concept of slopes, Vectors its components and vector algebra, Trigonometric angles



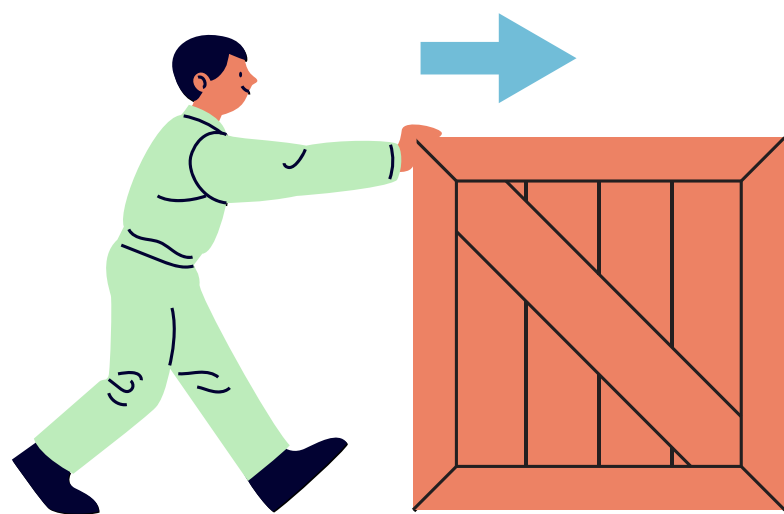
ELECTRODYNAMICS

Static Charge, Current Electricity, OHM's law, Potential difference, AC, DC resistances, Magnetic Field due to current carrying conductors, Moving charge in magnetic field electromagnetic induction



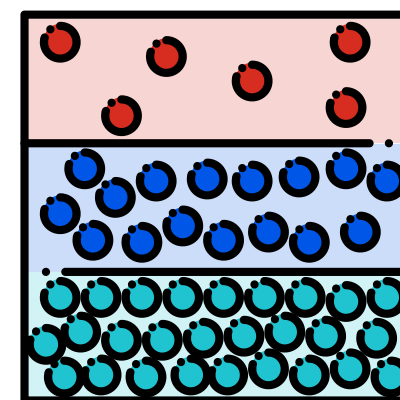
MECHANICS

Motion in 1d & 2d, Relative motion, Laws of motion, Momentum, Collision Friction, Work Power Energy, Gravitation, Fluid(Archimede's Principle & principal of floatation, Pressure



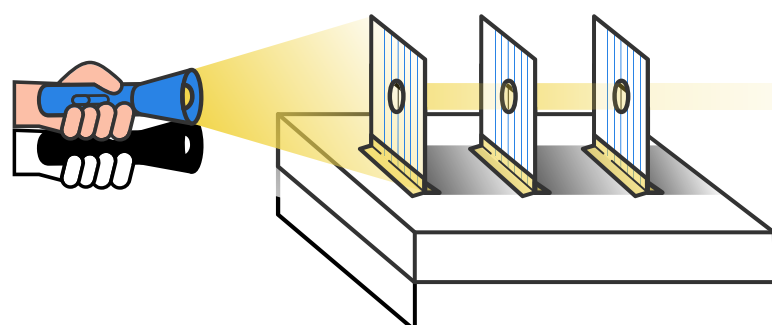
THERMAL PHYSICS

Calorimetry, Temperature scales, heat, heat transfer, Phases of matter, gas Laws, ideal gas equation, thermodynamic variables and processes



OPTICS

Reflection, Refraction, Snell's law, Glass slab, Plane & Spherical mirrors, Lenses, Prism, Natural Phenomena



OSCILLATION & WAVES

Harmonic Oscillations, frequency, amplitude & time period, wave properties, wave velocity, sound wave, natural phenomena, SONAR

