Smart Syllabus / Accelerated Learning Programme (ALP) Physics Grade-12 for Academic Session 2026-27 & BISE Exam-2027

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LIST OF EXCLUDED PHYSICS-11 PRACTICALS FOR ACADEMIC SESSION 2026-2027

- Investigate momentum conservation by colliding trolleys and ticker-timer for elastic and inelastic collisions.
- Determine the moment of inertia of a flywheel.
- Investigate the fall of spherical steel balls through a viscous medium and determine: (i) terminal velocity (ii) coefficient of viscosity of the fluid.
- Investigate the laws of vibration of stretched strings by sonometer or electromagnetic method.
- Determine Young's modulus of the material of a given wire using Searle's apparatus.
- Determine emf of a cell using potentiometer.
- Investigate the relationship between current passing through a tungsten filament lamp and the potential applied across it.

LIST OF EXCLUDED PHYSICS-12 PRACTICALS FOR ACADEMIC SESSION 2026-2027

- Determine the wavelength of light by using a diffraction grating.
- Determine the slit separation of a diffraction grating by using laser light of known wavelength.
- Measure the diameter of a wire or hair using laser.
- Determine the pick count of a nylon mesh by using a diffraction grating and a laser.
- Determine resistance of voltmeter by discharging a capacitor through it.
- Determine time constant by charging and discharging a capacitor through a resistor.
- Determine the impedance of a RL circuit at 50Hz and hence find inductance.
- Determine the impedance of a RC circuit at 50Hz and hence find capacitance.
- Observe the line spectrum of mercury with diffraction grating and spectrometer to determine the wavelength of several different lines, and hence, draw a conclusion about the width of visible spectrum.