



DAWN SCHOOL & COLLEGE SYSTEM

Weekly Syllabus for Class: 10th Subject: Physics

Month	1 st Week	2 nd Week	3 rd Week	4 th Week
March 2026			Eid-ul-Fitar 19-21 March	Oscillatory motion, SHM, motion of mass attached to a spring. Simple pendulum. Damping, waves, Characteristics of waves.
April 2026	Properties of waves Exercise. Sound waves characteristics of sound. Sound intensity. Speed of sound Speed of in air	Reflection of sound waves audible frequency range acoustics – exercise – geometrical optics reflection of light spherical mirror	Focal point and focal length of concave mirror and convex mirror – Image formation mirror equation. Refraction of light refractive index	Snell's law – total internal reflection of light optical fibers 1st Monthly Test 27-30 April Class IX only
May 2026	Refraction of light through prism. Lenses – the lens equation convention for the lens equation human eye	Angular magnifications and simple microscope compound microscope. Refracting telescope Exercise	Electrostatics – electric charge, electrostatic inductions electroscope, coulomb's law, electric field	Electric field intensity Eid-ul-Adha 26-28 May
June 2026	Electric potential practice applications of electrostatic capacitor. Types of capacitor. Combination of capacitor, series	Parallel combination, Exercise – Current electricity. Potential difference and EMP	Board Warm-up Exam 18-27 June (Class IX only)	Board Warm-up Exam 18-27 June (Class IX only)
July 2026	Potential deference and emf. OHM's law. Electrical resistance (R) resister. Combination of resistance, Series and parallel combinations	The I-V characteristics for ohmi and non – ohmic cord – electric power and joules law Summer Break 10-15 July	The I-V characteristics for ohmic and non – ohmic conductor. Electric power and joules law electrical energy and Kwtt	Use of electrical components, Galvanometer ammeter, volt meter, multi meter, D.C – A.C house circuit

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August 2026	Electrical safety in hold electricity danger of electricity – exercise Electromagnetism	Magnetic effect of a steady current – M – field due to a current carrying coil or solenoid	Force on a current carrying conductor in B, Turning effect on a current carrying coil in B	D.C Motor – electromagnetic induction – A.C generator Transfer, Exercise
September 2026	Thermionic emission electron gun. Cathode rays – cathode ray oscilloscope	Introduction to electronic anlage and digital electronics	Logic gales Uses of logic Gales exercise	2nd Monthly Test 23-26 Sept.
October 2026	Information and communication technology flow of information Transmission of electrical signal through wire	Transmission of electrical signal through optical fiber – transmission of radio – waves though air or space	Telecommunication devices. Internet and email	3rd Monthly Test 26-29 Oct.
November 2026	Information storage devices. Word processing handling information	Exercise CH # 18: Atom and atomic nucleus radioactivity	Nature of emission Alpha emission Beta emission Gamma emission	Nuclear transmutation Alpha decay Beta decay
December 2026	Half-life radio isotopes Uses of radio – isotopes	Radioactive dating, Nuclear fission	Fission chain reaction Nuclear fusion	Break-down Test 1 (30% Course) 28-31 December
January 2027	Background radiation and safety, Hazard from radioactive	Break-down Test 2 (30% Course) 11-14 January	Exercise	Break-down Test 3 (40% Course) 27-30 January
February 2027	Revision	Final Board Exam 11-20 February	Revision	Preparation for Annual – I BISE Exam