

Grade 10 Physics

P11 - Engineering Physics	P12 - Waves and imaging	P13 - Electromagnetism	P14 - Nuclear and Particle Physics
Mechanical Energy Work and Power Elastic PE Momentum Impulse Turning Forces Pressure Gases kinetic theory Gas laws Liquid Pressure Buoyancy force	Characteristics of Waves Sound Ultrasound and its applications Reflection, Refraction TIR Lenses Diffraction Applications of Imaging Superposition Two source interference	Electric Fields Magnetic fields Electromagnetism Motor effect EM induction AC generator Transformers Power transmission	Radioactivity Radioactive decay Half life Background count Mass-energy equivalence Energy from the nucleus - fission and fusion Particle physics Standard model Fundamental forces Conservation laws

Grade 10 Chemistry

C11: Redox	C12: Organic	C13: Acids and Bases	C14: Analytical Chemistry	C15: Medicinal Chemistry
Reactivity Redox Half equations Electrochemical cells (E&V) Fuel cells	Combustion Homologous series Calorimetry Fuels Bond enthalpies Structural isomers Transesterification	Indicators Common acids and bases Neutralisation Reactions of acids Strong vs weak Le Chatelier Titration The pH Scale (quantitatively)	Reacting masses Separating techniques Limiting reagents Dilutions Standard solutions Techniques in analytical chemistry Applied moles	Drugs & medicine Molecule polarity Solvent extraction Calibration curve Bioavailability Analgesics

Grade 10 Biology

B11: Coordination and Response	B12: Transport and Exchange	B13: Reproduction & Inheritance	B14: Evolution & Bio Technology	B15: Diseases and immunity
Homeostasis Nervous system Endocrine system Plant hormones* Excretory system Sleep & nervous system	Circulatory system Gas exchange system Diseases of the transport systems Transport in plants	Human Reproduction Plant reproduction Inheritance Structure of DNA Function of DNA Gene expression	Variation Natural selection Evolution Biodiversity Biotechnology and genetic modification	Pathogens and disease The immune system Viruses Antibiotics and bacteria