KEVI CAMP HILL SCHOOL FOR GIRLS

PHYSICS

CURRICULUM MAP (YEARS 7-13)

KING EDWARD VI CAMP HILL SCHOOL FOR GIRLS

Educational excellence for our City

	AUTUMN TERM	SPRING TERM	SUMMER TERM
YEAR 7	**Physics is taught as part of KS3 Science** Physics content: • Energy	**Physics is taught as part of KS3 Science** Physics content: • Electricity • Magnetism	**Physics is taught as part of KS3 Science** Physics content: • Forces (including resultant forces, speed, weight and mass)
YEAR 8	**Physics is taught as part of KS3 Science** Physics content: • Heating and cooling	**Physics is taught as part of KS3 Science** Physics content: • Light • Sound	**Physics is taught as part of KS3 Science** Physics content: • Forces (including friction, freefall, stretching and pressure) • Space
YEAR 9	• Forms of energy • Changes in energy • Specific heat capacity • Power	• Energy transfers in the home • National and global energy resources • Changes of State	• Density • Internal Energy • Particle model and pressure • End of year exams
YEAR 10	• Particle model and pressure • Current Potential difference and resistance • Series and Parallel circuits • Mains Electricity • Static electricity • Power and Energy, National Grid	• Atoms and Isotopes • Atoms and radiation • Hazards and uses of Radioactive emissions • Fission and Fusion • Forces and their interactions	• Forces and elasticity • Moments, levers and gears • Pressure in a fluid • End of year exams
YEAR 11	• Atmospheric pressure • Motion along a straight line • Forces, acceleration and Newton's laws • Forces and braking • Momentum • Waves • Mock exams	• Waves • EM Spectrum • Lenses • Black body radiation • Electromagnets • Motor effect • Transformers and National Grid	• Space • Revision and Exam technique • Final exams
YEAR	• Matter and Radiation	• On the Move	• Work Energy and Power

Subject Leader: Mrs Nicholson, r.nicholson@chg.kevibham.org.uk

12	• Quarks and Leptons • Quantum Phenomenon • Waves • Optics • Forces in equilibrium	• Newton's laws of motion • Force and Momentum • Electric Currents • DC Currents	• Materials • Centripetal Force • Thermal Physics • Ideal gases • Mock exams and revision
YEAR 13	• Simple Harmonic Motion • Gravitational Fields • Electric Fields • Magnetic Fields	• Revision and Mock Exams • Capacitors • Magnetic Fields • Electromagnetic Induction • Radioactivity • Nuclear • Option unit	• Option unit • Practical skills • Revision and Exam questions • Final exams