

# 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
<b>YEAR 7</b>	<b>Physics is taught as part of KS3 Science</b> Physics content: <ul style="list-style-type: none"> <li>• Energy</li> </ul>	<b>Physics is taught as part of KS3 Science</b> Physics content: <ul style="list-style-type: none"> <li>• Electricity</li> <li>• Magnetism</li> </ul>	<b>Physics is taught as part of KS3 Science</b> Physics content: <ul style="list-style-type: none"> <li>• Forces (including resultant forces, speed, weight and mass)</li> </ul>
<b>YEAR 8</b>	<b>Physics is taught as part of KS3 Science</b> Physics content: <ul style="list-style-type: none"> <li>• Heating and cooling</li> </ul>	<b>Physics is taught as part of KS3 Science</b> Physics content: <ul style="list-style-type: none"> <li>• Light</li> <li>• Sound</li> </ul>	<b>Physics is taught as part of KS3 Science</b> Physics content: <ul style="list-style-type: none"> <li>• Forces (including friction, freefall, stretching and pressure)</li> <li>• Space</li> </ul>
<b>YEAR 9</b>	<ul style="list-style-type: none"> <li>• Forms of energy</li> <li>• Changes in energy</li> <li>• Specific heat capacity</li> <li>• Power</li> </ul>	<ul style="list-style-type: none"> <li>• Energy transfers in the home</li> <li>• National and global energy resources</li> <li>• Changes of State</li> </ul>	<ul style="list-style-type: none"> <li>• Density</li> <li>• Internal Energy</li> <li>• Particle model and pressure</li> <li>• End of year exams</li> </ul>
<b>YEAR 10</b>	<ul style="list-style-type: none"> <li>• Particle model and pressure</li> <li>• Current Potential difference and resistance</li> <li>• Series and Parallel circuits</li> <li>• Mains Electricity</li> <li>• Static electricity</li> <li>• Power and Energy, National Grid</li> </ul>	<ul style="list-style-type: none"> <li>• Atoms and Isotopes</li> <li>• Atoms and radiation</li> <li>• Hazards and uses of Radioactive emissions</li> <li>• Fission and Fusion</li> <li>• Forces and their interactions</li> </ul>	<ul style="list-style-type: none"> <li>• Forces and elasticity</li> <li>• Moments, levers and gears</li> <li>• Pressure in a fluid</li> <li>• End of year exams</li> </ul>
<b>YEAR 11</b>	<ul style="list-style-type: none"> <li>• Atmospheric pressure</li> <li>• Motion along a straight line</li> <li>• Forces, acceleration and Newton's laws</li> <li>• Forces and braking</li> <li>• Momentum</li> <li>• Waves</li> <li>• Mock exams</li> </ul>	<ul style="list-style-type: none"> <li>• Waves</li> <li>• EM Spectrum</li> <li>• Lenses</li> <li>• Black body radiation</li> <li>• Electromagnets</li> <li>• Motor effect</li> <li>• Transformers and National Grid</li> </ul>	<ul style="list-style-type: none"> <li>• Space</li> <li>• Revision and Exam technique</li> <li>• Final exams</li> </ul>
<b>YEAR 12</b>	<ul style="list-style-type: none"> <li>• Matter and Radiation</li> <li>• Quarks and Leptons</li> <li>• Quantum Phenomenon</li> </ul>	<ul style="list-style-type: none"> <li>• On the Move</li> <li>• Newton's laws of motion</li> <li>• Force and Momentum</li> </ul>	<ul style="list-style-type: none"> <li>• Work Energy and Power</li> <li>• Materials</li> <li>• Centripetal Force</li> </ul>

<b>12</b>	<ul style="list-style-type: none"> <li>• Waves</li> <li>• Optics</li> <li>• Forces in equilibrium</li> </ul>	<ul style="list-style-type: none"> <li>• Electric Currents</li> <li>• DC Currents</li> </ul>	<ul style="list-style-type: none"> <li>• Thermal Physics</li> <li>• Ideal gases</li> <li>• Mock exams and revision</li> </ul>
<b>YEAR 13</b>	<ul style="list-style-type: none"> <li>• Simple Harmonic Motion</li> <li>• Gravitational Fields</li> <li>• Electric Fields</li> <li>• Magnetic Fields</li> </ul>	<ul style="list-style-type: none"> <li>• Revision and Mock Exams</li> <li>• Capacitors</li> <li>• Magnetic Fields</li> <li>• Electromagnetic Induction</li> <li>• Radioactivity</li> <li>• Nuclear</li> <li>• Option unit</li> </ul>	<ul style="list-style-type: none"> <li>• Option unit</li> <li>• Practical skills</li> <li>• Revision and Exam questions</li> <li>• Final exams</li> </ul>