

DAGENHAM PARK SUBJECT CURRICULUM

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| Subject | Physics |
| Year Group | 10 |
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| Overview | <p>GCSE Physics offers students the chance to gain a good understanding of:</p> <ul style="list-style-type: none"> • The use and transfer of energy. • Electricity and its uses. • Forces and their effects. • The particle model of matter. • Waves and electromagnetic radiation. <p>The specification is designed to give students the tools and concepts they need to be able to construct a scientific approach to solving problems. Students will learn to ask and answer questions about the fundamental laws that govern natural phenomena. This is done by integrating the 'How Science Works' approach throughout the specification.</p> <p>The students need to carry out required practicals during class time to show that they can manipulate equipment, process results, formulate conclusions and evaluate their work.</p> |
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| Autumn Half term 1 | <p>Physics Unit 5: Forces</p> <p>6.5.1 Forces and their interactions 6.5.2 Work done and energy transfer 6.5.3 Forces and elasticity 6.5.4 Forces and motion 6.5.5 Momentum</p> |
| Autumn Half term 2 | <p>Physics Unit 5: Forces</p> <p>6.5.1 Forces and their interactions 6.5.2 Work done and energy transfer 6.5.3 Forces and elasticity 6.5.4 Forces and motion 6.5.5 Momentum</p> |
| Spring Half term 1 | <p>Physics Unit 6: Waves</p> <p>6.6.1 Waves in air, fluids and solids 6.6.2 Electromagnetic waves</p> |

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| <p>Spring Half term 2</p> | <p>Physics Unit 7: Magnetism and electromagnetism 6.7.1 Permanent and induced magnetism, magnetic forces and fields 6.7.2 The motor effect</p> <p>Physics Unit 8: Space Physics 6.8.1 Solar system 6.8.2 Red-Shift</p> |
| <p>Summer Half term 1</p> | <p>Revision</p> |
| <p>Summer Half term 2</p> | <p>GCSE Exams</p> |
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| <p>Homework</p> | <p>Graded tasks. Revision packs. Exam booklets.</p> |
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| <p>Useful Resources</p> | <p>Study packs on every section are on the learning platform. CGP Revision guides. School's Share point. BBC Bitesize. Seneca</p> |