

## DAGENHAM PARK SUBJECT CURRICULUM

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Subject	<b>Mathematics</b>	
Year Group	<b>Year 11</b>	
Overview	<p><b>Flight paths have been tailored for pupils to build on knowledge acquired in Year 9 &amp; 10. There are two flight paths; Higher and Foundation. Flight paths are determined by an end of year 8 assessment.</b></p> <p><b>Our schemes of learning for year 11 is organised into specific mathematical strands. It is designed to make connections between mathematical strands and to develop fluency, mathematical reasoning and competence in solving increasingly sophisticated problems.</b></p>	
Term by Term		
Autumn Half term 1	<p>Fractions, indices and standard form</p> <ul style="list-style-type: none"> <li>- Multiplying and dividing fractions</li> <li>- The laws of indices</li> <li>- Writing large numbers in standard form</li> <li>- Writing small numbers in standard form</li> <li>- Calculating with standard form</li> </ul> <p>Congruence, similarity and vectors</p> <ul style="list-style-type: none"> <li>- Similarity and enlargement</li> <li>- More similarity</li> <li>- Using similarity</li> <li>- Congruence</li> <li>- Vectors</li> </ul>	<p>Vectors and geometric proof</p> <ul style="list-style-type: none"> <li>- Vectors and vector notation</li> <li>- Vector arithmetic</li> <li>- More vector arithmetic</li> <li>- Parallel vectors and collinear points</li> <li>- Solving geometric problems</li> </ul>
Autumn Half term 1	<p>More algebra</p> <ul style="list-style-type: none"> <li>- Graphs of cubic and reciprocal functions</li> <li>- Non-linear graphs</li> <li>- Solving simultaneous equations graphically</li> <li>- Solving simultaneous equations algebraically</li> <li>- Rearranging formulae</li> <li>- Proof</li> </ul>	<p>Proportion and graphs</p> <ul style="list-style-type: none"> <li>- Direct proportion</li> <li>- More direct proportion</li> <li>- Inverse proportion</li> <li>- Exponential functions</li> <li>- Non-linear graphs</li> <li>- Translating graphs of functions</li> <li>- Reflecting and stretching graphs of functions</li> </ul>
Spring Half term 1	<ul style="list-style-type: none"> <li>- Essential skills practice</li> <li>- Exam technique practice</li> </ul>	
Spring Half term 2	<ul style="list-style-type: none"> <li>- Closing individual gaps from Mock exam analysis</li> </ul>	
Summer Half term 1		
Summer Half term 2		

<b>Homework</b>	Homework will be provided weekly via <i>Show My Homework</i> . Homework set will reinforce the skills learnt in lesson and prior learning.
<b>Useful Resources</b>	
<b>Useful Resources</b>	Sharepoint – Mathematics – KS4 <a href="https://mathsgenie.co.uk/">https://mathsgenie.co.uk/</a> <a href="http://www.mathsbox.org.uk">www.mathsbox.org.uk</a> <a href="https://vle.mathswatch.co.uk/vle/">https://vle.mathswatch.co.uk/vle/</a>