

## DAGENHAM PARK SUBJECT CURRICULUM

<b>Subject</b>	<b>Mathematics</b>
<b>Year Group</b>	<b>Year 7 2019-2020</b>
<b>Overview</b>	<p><b>Our schemes of learning for year 7 is organised into specific mathematical strands. This flight path is tailored for pupils to build on knowledge acquired from their primary school. Our scheme of learning is designed to make connections between mathematical strands and to develop fluency, mathematical reasoning and competence in solving increasingly sophisticated problems.</b></p>
<b>Term by Term</b>	
<b>Autumn Half term 1</b>	<p><b>Probability</b></p> <ul style="list-style-type: none"> <li>- Probability scale</li> <li>- Fractions (simplify)</li> <li>- Equivalence (FDP)</li> <li>- Probability of single event</li> <li>- Experimental probability</li> <li>- Decimals &amp; Fractions</li> <li>- Expected number</li> </ul>
<b>Autumn Half term 2</b>	<p><b><u>Number</u></b></p> <ul style="list-style-type: none"> <li>- Place value &amp; rounding</li> <li>- Ordering integers, FDP (check equivalence)</li> <li>- Order of operations</li> <li>- Directed (negative) numbers</li> <li>- Multiples, Factors &amp; Primes</li> <li>- Powers &amp; Roots</li> </ul>
<b>Spring Half term 1</b>	<p><b><u>Expressions &amp; Equations</u></b></p> <ul style="list-style-type: none"> <li>- Use algebraic notation (define variables, function machines)</li> <li>- Simplify expressions (models)</li> <li>- Substitute into expressions</li> <li>- Form expressions</li> <li>- Expand/Factorise expressions</li> <li>- Solve linear equations (1&amp;2 step)</li> <li>- Form &amp; solve linear equations</li> <li>- Represent functions graphically</li> </ul>
<b>Spring Half term 2</b>	<p><b><u>Graphs</u></b></p> <ul style="list-style-type: none"> <li>- Algebraic powers</li> <li>- Expressions &amp; Brackets</li> <li>- Factoring expressions</li> <li>- One-step equations</li> </ul>

	<ul style="list-style-type: none"> <li>- Conversion graphs</li> <li>- Distance-time graphs</li> <li>- Line graphs</li> <li>- STEM: Graphs of functions</li> </ul>
<b>Summer Half term 1</b>	<p><b><u>2D Shapes</u></b></p> <ul style="list-style-type: none"> <li>- Area of triangles</li> <li>- Area of parallelogram &amp; trapeziums</li> <li>- Volume of cube/cuboids</li> <li>- 3D Shapes</li> <li>- Measure</li> <li>- Surface area</li> </ul>
<b>Summer Half term 2</b>	<p><b><u>Geometry</u></b></p> <ul style="list-style-type: none"> <li>- Quadrilaterals</li> <li>- Alternate angles &amp; proof</li> <li>- Geometrical problems</li> <li>- Exterior &amp; interior angles</li> <li>- Solving geometric problems</li> </ul>
<b>Homework</b>	<b>Homework will be provided weekly via <i>Show My Homework</i>. Homework set will reinforce the skills learnt in lesson.</b>
<b>Useful Resources</b>	<p><b>All PowerPoints, resources and success criteria for each half term are on Sharepoint – Mathematics – KS3</b>  <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></p>