

DAGENHAM PARK SUBJECT CURRICULUM

Subject	Mathematics
Year Group	Year 8 2019-2020
Overview	<p>Our schemes of learning for year 8 is organised into specific mathematical strands. This flight path is tailored for pupils to build on knowledge acquired from year 7. 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.</p>
Term by Term	
Autumn Half term 1	<p>Multiplicative Change</p> <ul style="list-style-type: none"> - Recap operating FDP - Conversion (unitary method) - Proportion change - Scale & Ratio (Maps) - Enlargement - Negative & Fractional scale factors - FINANCE: Percentage change - Rates of change
Autumn Half term 2	<p>Expressions & Probability</p> <ul style="list-style-type: none"> - Index notation - Writing expressions & formulae (real) - Substituting into expressions - STEM: Using formulae - Indices & Brackets - Factorising - Solve equations - Form and solve equations (real life) - STEM: Standard form - Recap single event - 2 event probability - Systematic lists - Sample space (product rule) - Fraction to decimal link - Calculating probabilities - Experimental probabilities - Probability diagrams - Independent events
Spring Half term 1	<p><u>Construction & Circles</u></p> <ul style="list-style-type: none"> - Using scales & maps - Basic construction

	<ul style="list-style-type: none"> - Triangles - Loci - Circumference & area - Compare areas - Pie charts (construct & interpret)
Spring Half term 2	<p><u>Sequences & Graphs</u></p> <ul style="list-style-type: none"> - Sequences from diagrams - Sequences from numbers & other -Term to term rules - nth term for linear sequences - Link to linear graphs - Graphing rates of change - Straight-line graphs - Introduce idea of discrete & continuous data
Summer Half term 1	<p><u>3D Objects & Data handling</u></p> <ul style="list-style-type: none"> - Naming 3D objects - Faces, Vertices, Edges - Surface area from nets - Volume of 3D objects - Prisms and cylinders - Pythagoras theorem - Calculating averages - Display & analyse data - Charts (interpreting & reasoning)
Summer Half term 2	<p><u>Equality & Equivalence</u></p> <ul style="list-style-type: none"> - Expressions, Equations, Identity, Inequalities - Represent on a line - Solve inequalities - STEM: Error bounds
Homework	Homework will be provided weekly via <i>Show My Homework</i>. Homework set will reinforce the skills learnt in lesson and prior learning.
Useful Resources	<p>Sharepoint – Mathematics – KS3 https://mathsgenie.co.uk/ www.mathsbox.org.uk https://vle.mathswatch.co.uk/vle/</p>