


Westfield Academy - Curriculum Information

What your child will learn in ...(ADD VERY BRIEF INTENT)

Maths

Head of Department	C. Okemadu	
Head of Department email	cho@westfield.academy	
Lessons per 2 week cycle	7	
Specification/Board details/Key stage	Edexcel	

Term by term

Autumn 1	Autumn 2	Spring 1
<p>The six index laws (including roots)</p> <p>Solving equations involving indices</p> <p>Surds: simplifying, brackets</p> <p>Surds: expressions involving fractions</p> <p>Calculating with rounded numbers</p> <p>More complex proportional relationships</p>	<p>Review of Pythagoras and trigonometry</p> <p>Reflection, rotation and translation</p> <p>Enlargement by fractional and negative scale factors</p> <p>Combining transformations</p> <p>Vector algebra</p> <p>Bearings</p> <p>Research Project</p>	<p>Probability</p> <p>Venn diagrams</p> <p>Two-way tables</p> <p>Relative and exclusive frequency</p> <p>Mutually exclusive, dependent and independent events</p> <p>Conditional probability</p> <p>Student Research</p>
Spring 2	Summer 1	Summer 2
<p>Graphs</p> <p>Quadratic graphs</p> <p>Solve Simultaneous Equations</p> <p>Research Project</p>	<p>Sine rule</p> <p>Cosine rule</p> <p>'Solve' triangles using the sine and cosine rules</p>	<p>Construct and use a range of statistical diagrams</p> <p>Student research / problem solving</p>

	<p>Angles inside circles</p> <p>Trigonometry in three dimensions</p> <p>Similar Shapes, congruence and proof</p> <p>Area/volume of similar shapes</p> <p>Algebraic fractions</p> <p>Quadratic Simultaneous equations</p> <p>Equation of a circle</p> <p>Vector geometry</p> <p>Graphs of trigonometric functions</p> <p>Student Research</p>	
Key Skills developed		
Useful Websites	https://maths.sparx-learning.com/teacher/school-settings/sucription	
Reading/Literacy requirements /Key Words	<p>Index</p> <p>Solve</p> <p>Surd</p> <p>Reflect</p> <p>Rotate</p> <p>Enlarge</p> <p>Bearing</p> <p>Relative</p> <p>Frequency</p> <p>Probability</p> <p>Quadratic</p> <p>Simultaneous</p> <p>Angles</p> <p>Scale Factor</p>	
Homework requirements	Two times a week	
Personal Development Links	https://corbettmaths.com/5-a-day/gcse/ https://sites.google.com/westfield.academy/ks3maths/home	
Trips/Visits (If applicable)	<p>Our Yr. 10 students are given an insight into further academic pathways. Visiting a university offers students a glimpse into higher education, inspiring academic ambition and future planning. It exposes them to diverse fields of study, campus life, and potential career paths. Such visits</p>	

	encourage goal-setting, enhance motivation, and provide valuable insights into the opportunities and challenges of university life.
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