



Sandon Road, Meir, Stoke-on-Trent, ST3 7DF Telephone: 01782 377100 Fax: 01782 377101

Email: info@omera.co.uk Website: www.ormistonmeridianacademy.co.uk

Principal: Mrs C Stanyer

Subject: Mathematics

Year 11 Curriculum Map 2024 - 25

Week Commencing	Topic (including links to additional resources)	Assessment Window
Staff INSET 02/09 Students Return 03/09	Triangle measures Expressions, formulae, sequences	
09/09/2024	<i>Higher tier:</i> <ul style="list-style-type: none"> Pythagoras' Theorem Right-angled triangle trigonometry Pythagoras' and trigonometry in 3D Exact trigonometric values Sine and cosine rule Sine rule for area of triangles 	1 teacher marked learning checkpoint
16/09/2024	<i>Crossover tier:</i> <ul style="list-style-type: none"> Pythagoras' Theorem Right-angled triangle trigonometry 	0 student marked learning checkpoints
23/09/2024	<i>Foundation tier:</i> <ul style="list-style-type: none"> Pythagoras' Theorem Right-angled triangle trigonometry 	

Ormiston Meridian Academy is committed to safeguarding and promoting the welfare of children and young people and expects all staff and volunteers to share this commitment.



30/09/2024	<p>Statistics Discrete data, bivariate data, continuous data</p> <p><i>Higher tier:</i></p> <ul style="list-style-type: none"> • Averages from tables • Reverse means • Comparing data • Pie charts • Scatter graphs • Histograms • Box plots • Cumulative frequency diagrams • Time-series diagrams • Stem and leaf diagrams • Capture-recapture 	
07/10/2024	<p><i>Crossover tier:</i></p> <ul style="list-style-type: none"> • Averages from lists • Averages from tables • Reverse means • Comparing data • Pie charts • Scatter graphs • Bar charts • Time-series diagrams • Stem and leaf diagrams 	1 teacher marked learning checkpoints
14/10/2024	<p><i>Foundation tier:</i></p> <ul style="list-style-type: none"> • Averages from lists • Averages from tables • Comparing data • Pie charts • Scatter graphs • Bar charts • Time-series diagrams • Stem and leaf diagrams 	2 student marked learning checkpoints
21/10/2024		
October Half Term		

04/11/2024	<p>Transformations <i>Higher tier:</i></p> <ul style="list-style-type: none"> • Translations • Rotations • Reflections • Enlargements with positive scale factors • Enlargements with negative scale factors • Linear similarity • Proving congruent triangle pairs • Area and volume similarity • Repeated transformations. <p><i>Crossover tier:</i></p>	<p>1 teacher marked learning checkpoint</p> <p>0 student marked learning checkpoints</p>
11/11/2024	<ul style="list-style-type: none"> • Translations • Rotations • Reflections • Enlargements with positive scale factors • Linear similarity <p><i>Foundation tier:</i></p> <ul style="list-style-type: none"> • Translations • Rotations • Reflections • Enlargements with positive scale factors • Linear similarity 	OAT Eng / Maths / Sci
18/11/2024	<p>Perimeter, area and volume <i>Higher tier:</i></p> <ul style="list-style-type: none"> • Area and circumference of circles/sectors • Volume and surface area of prisms • Volume and surface area of cones/pyramids/spheres 	Achievement Round 1
25/11/2024	<p><i>Crossover tier:</i></p> <ul style="list-style-type: none"> • Area of standard 2D shapes • Area and circumference of circles/sectors • Volume and surface area of prisms • Volume and surface area of cones/pyramids/spheres 	Achievement Round 1
02/12/2024	<p><i>Foundation tier:</i></p> <ul style="list-style-type: none"> • Area of standard 2D shapes • Area and circumference of circles/sectors • Volume and surface area of prisms 	<p>1 teacher marked learning checkpoint</p> <p>0 student marked learning checkpoints</p>
09/12/2024	<p>Constructions Expressions, formulae, sequences</p> <p><i>Higher tier:</i></p> <ul style="list-style-type: none"> • Construct perpendicular lines • Construct angle bisectors • Loci <p><i>Crossover tier:</i></p>	<p>1 teacher marked learning checkpoint</p>
16/12/2024	<ul style="list-style-type: none"> • Construct perpendicular lines • Construct angle bisectors • Loci <p><i>Foundation tier:</i></p> <ul style="list-style-type: none"> • Construct perpendicular lines • Construct angle bisectors • Loci 	<p>0 student marked learning checkpoints</p>

Christmas Break		
06/01/2025	Probability <i>Higher tier:</i> <ul style="list-style-type: none"> • And/Or rule • Sample spaces • Tree diagrams • Algebraic probability • Frequency trees • Relative frequency 	1 teacher marked learning checkpoint 0 student marked learning checkpoints
13/01/2025	<i>Crossover tier:</i> <ul style="list-style-type: none"> • Mutual exclusivity • Sample spaces • Tree diagrams • Frequency trees • Relative frequency 	
20/01/2025	<i>Foundation tier:</i> <ul style="list-style-type: none"> • Mutual exclusivity • Sample spaces • Tree diagrams • Frequency trees • Relative frequency 	
27/01/2025	Coordinate geometry <i>Higher tier:</i> <ul style="list-style-type: none"> • $Y=mx+c$ • Lengths of lines on coordinate grids • Parallel and perpendicular lines • Equations of circles • Sketching quadratic graphs • Equations of tangents to circles 	Achievement Round 2
03/02/2025	<i>Crossover tier</i> <ul style="list-style-type: none"> • $Y=mx+c$ • Lengths of lines on coordinate grids • Midpoints of lines • Parallel lines 	Achievement Round 2
10/02/2025	<i>Foundation tier:</i> <ul style="list-style-type: none"> • $Y=mx+c$ • Lengths of lines on coordinate grids • Parallel lines • Midpoints of lines 	Achievement Round 2
February Half Term		

24/02/2025	Sequences and proof <i>Higher tier:</i> <ul style="list-style-type: none"> Nth term of linear sequences Nth term of quadratic sequences Fibonacci sequences Geometric progressions Algebraic proof Geometric proof <i>Crossover tier:</i> <ul style="list-style-type: none"> Diagrammatic and numerical sequences Continuing sequences Nth term of linear sequences Fibonacci sequences <i>Foundation tier:</i> <ul style="list-style-type: none"> Diagrammatic and numerical sequences Continuing sequences Nth term of linear sequences 	1 teacher marked learning checkpoint 0 student marked learning checkpoints
03/03/2025		
10/03/2025		
17/03/2025	Measures and movement <i>Higher tier:</i> <ul style="list-style-type: none"> Speed, distance and time Density Pressure Distance-time graphs Velocity-time graphs Vector arithmetic Vectors and shapes Vector proof <i>Crossover tier:</i> <ul style="list-style-type: none"> Metric measures Speed, distance and time Density Pressure Distance-time graphs Vector arithmetic <i>Foundation tier:</i> <ul style="list-style-type: none"> Metric measures Speed, distance and time Distance-time graphs 	1 teacher marked learning checkpoint 0 student marked learning checkpoints
24/03/2023		
31/03/2025		
07/04/2025		
Easter Break		
28/04/2025	BESPOKE GCSE PREPARATION	
05/05/25	BESPOKE GCSE PREPARATION	GCSE
12/05/2025	BESPOKE GCSE PREPARATION	GCSE
19/05/2025	BESPOKE GCSE PREPARATION	GCSE
May Half Term		

02/06/2025	BESPOKE GCSE PREPARATION	GCSE
09/06/2025	BESPOKE GCSE PREPARATION	GCSE
16/06/2025	BESPOKE GCSE PREPARATION	GCSE