

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 10 (Higher Tier) 1001, 1002 & 1003

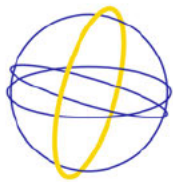
Curriculum Map

2022 -2023

Week Commencing	Topic	Assessment Window
STAFF INSET 05/09 Y7 DAY 06/09 ALL STUDENT IN 07/09	<p>Additional resources can be found by searching each topic in The Oak Academy, Corbettmaths or Sparx</p> <p>Congruency, similarity and enlargement</p> <ul style="list-style-type: none"> • Similar triangles • Congruent triangles • Translations • Rotations • Reflections • Positive enlargements • Fractional enlargements • Negative enlargements • Similar area • Similar volume 	
12/09/2022	<p>Congruency, similarity and enlargement</p> <ul style="list-style-type: none"> • Similar triangles • Congruent triangles • Translations • Rotations • Reflections • Positive enlargements • Fractional enlargements • Negative enlargements • Similar area • Similar volume 	
19/09/2022	<p>Congruency, similarity and enlargement</p> <ul style="list-style-type: none"> • Similar triangles • Congruent triangles • Translations • Rotations • Reflections • Positive enlargements • Fractional enlargements • Negative enlargements • Similar area • Similar volume 	Learning Checkpoint
26/09/2022	<p>Triangle measures</p> <ul style="list-style-type: none"> • Pythagoras' Theorem • Right-angled triangle trigonometry • 3D Pythagoras' • 3D Trigonometry • Exact trigonometric calculations • None right-angled triangle trigonometry 	

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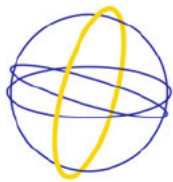
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03/10/2022	Triangle measures <ul style="list-style-type: none"> • Pythagoras' Theorem • Right-angled triangle trigonometry • 3D Pythagoras' • 3D Trigonometry • Exact trigonometric calculations • None right-angled triangle trigonometry 	
10/10/2022	Triangle measures <ul style="list-style-type: none"> • Pythagoras' Theorem • Right-angled triangle trigonometry • 3D Pythagoras' • 3D Trigonometry • Exact trigonometric calculations • None right-angled triangle trigonometry 	Learning Checkpoint
17/10/2022	AR1 preparation, response and DDI	AR1
October Half Term		
31/10/2022	AR1 preparation, response and DDI	AR1
7/11/2022	Equations and inequalities <ul style="list-style-type: none"> • Linear equations • Linear inequalities • Graphical inequalities • Solving quadratics with factorisation • Quadratic inequalities 	
14/11/2022	Equations and inequalities <ul style="list-style-type: none"> • Linear equations • Linear inequalities • Graphical inequalities • Solving quadratics with factorisation • Quadratic inequalities 	
21/11/2022	Equations and inequalities <ul style="list-style-type: none"> • Linear equations • Linear inequalities • Graphical inequalities • Solving quadratics with factorisation • Quadratic inequalities 	Learning Checkpoint
28/11/2022	Simultaneous equations <ul style="list-style-type: none"> • Linear simultaneous equations • Quadratic simultaneous equations • Graphical simultaneous equations 	

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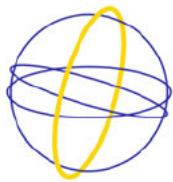
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5/12/2022	Simultaneous equations <ul style="list-style-type: none"> Linear simultaneous equations Quadratic simultaneous equations Graphical simultaneous equations 	
12/12/2022	Simultaneous equations <ul style="list-style-type: none"> Linear simultaneous equations Quadratic simultaneous equations Graphical simultaneous equations 	Learning Checkpoint
Christmas Break		
02/01/2023	Angles and bearings <ul style="list-style-type: none"> Bearings Bearings with trigonometry and Pythagoras' theorem Bearings with sine and cosine rule 	
9/01/2023	Angles and bearings <ul style="list-style-type: none"> Bearings Bearings with trigonometry and Pythagoras' theorem Bearings with sine and cosine rule 	Learning Checkpoint
16/01/2023	Working with circles <ul style="list-style-type: none"> Arc length Sector area Circle theorems Volume and surface area of cylinders Volume and surface area of spheres Volume and surface area of cones/pyramids 	
23/01/2023	Working with circles <ul style="list-style-type: none"> Arc length Sector area Circle theorems Volume and surface area of cylinders Volume and surface area of spheres Volume and surface area of cones/pyramids 	Learning Checkpoint
30/01/2023	AR2 preparation, response and DD1	AR2
6/02/2023	AR2 preparation, response and DD1	AR2
13/02/2023	Vectors <ul style="list-style-type: none"> Vector arithmetic Geometric proof with vectors 	Learning Checkpoint
February Half Term		

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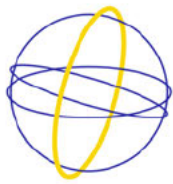
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27/02/2023	Ratio and fractions <ul style="list-style-type: none"> • Proportional comparison with ratio • Conversions with ratio • Direct proportion graphs • Recipes • Best buys • Ratio with volume, area and algebra 	
6/03/2023	Ratio and fractions <ul style="list-style-type: none"> • Proportional comparison with ratio • Conversions with ratio • Direct proportion graphs • Recipes • Best buys • Ratio with volume, area and algebra 	Learning Checkpoint
13/03/2023	Percentages and interest <ul style="list-style-type: none"> • Percentage of amounts • Simple interest • Compound interest • Percentage change • Percentage increase and decrease • Reverse percentages • Growth and decay • Iterative processes 	
20/03/2023	Percentages and interest <ul style="list-style-type: none"> • Percentage of amounts • Simple interest • Compound interest • Percentage change • Percentage increase and decrease • Reverse percentages • Growth and decay • Iterative processes 	
27/03/2023	Percentages and interest <ul style="list-style-type: none"> • Percentage of amounts • Simple interest • Compound interest • Percentage change • Percentage increase and decrease • Reverse percentages • Growth and decay • Iterative processes 	Learning Checkpoint
Easter		
17/04/2023	Probability <ul style="list-style-type: none"> • Sample spaces • Capture/recapture • Frequency trees • Venn diagrams • Probability trees • Conditional probability 	

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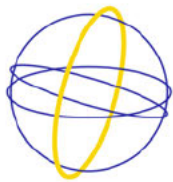
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24/04/23	Probability <ul style="list-style-type: none"> • Sample spaces • Capture/recapture • Frequency trees • Venn diagrams • Probability trees • Conditional probability 	
1/05/2023	Probability <ul style="list-style-type: none"> • Sample spaces • Capture/recapture • Frequency trees • Venn diagrams • Probability trees • Conditional probability 	Learning Checkpoint
8/05/2023	Collecting, representing and interpreting data <ul style="list-style-type: none"> • Frequency polygons • Frequency tables (discrete and continuous) • Scatter graphs • Cumulative frequency • Box plots • Histograms • Sampling 	
15/05/23	Collecting, representing and interpreting data <ul style="list-style-type: none"> • Frequency polygons • Frequency tables (discrete and continuous) • Scatter graphs • Cumulative frequency • Box plots • Histograms • Sampling 	
22/05/23	Collecting, representing and interpreting data <ul style="list-style-type: none"> • Frequency polygons • Frequency tables (discrete and continuous) • Scatter graphs • Cumulative frequency • Box plots • Histograms • Sampling 	Learning Checkpoint
May Half Term		
05/06/2023	Non-calculator methods <ul style="list-style-type: none"> • Recurring decimals • Surds • Upper and lower bounds 	
12/06/2023	Non-calculator methods <ul style="list-style-type: none"> • Recurring decimals • Surds • Upper and lower bounds 	

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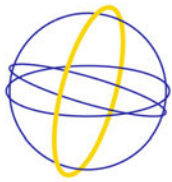
19/06/2023	Non-calculator methods <ul style="list-style-type: none">• Recurring decimals• Surds• Upper and lower bounds	Learning Checkpoint
26/06/2023	AR3 preparation, response and DDI	AR3
3/07/2023	AR3 preparation, response and DDI	AR3
10/07/2023	Types of number and sequences <ul style="list-style-type: none">• Prime factorisation• Fibonacci sequences• Quadratic sequences	
17/07/2023	Types of number and sequences <ul style="list-style-type: none">• Prime factorisation• Fibonacci sequences• Quadratic sequences	
24/07/2023	Types of number and sequences <ul style="list-style-type: none">• Prime factorisation• Fibonacci sequences• Quadratic sequences	Learning Checkpoint

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