

**YISHUN SECONDARY SCHOOL**  
**MATHEMATICS**  
**SECONDARY 3 G2 2024**

<b>Mathematics Curriculum</b>		<b>Key Programmes</b>
In line with the requirements of the Mathematics Syllabus, the teaching of Math at YSS focuses on developing thinking, reasoning and problem-solving skills using Math Modelling, making conjectures, investigations and making connections among mathematical concepts.		
<b>Term 1</b>	<b>Chapter</b>	<b>Assessment</b>
Week 1 (1 <sup>st</sup> Jan Mon-New Year day)	<b>Back to School Programme</b>	
Week 2	1.1 Further Expansion and Simplification of Algebraic Expressions 1.2 Factorisation by Grouping	
Week 3	1.3 Addition and Subtraction of Algebraic Fractions 1.4 Manipulation of Algebraic Formulae	
Week 4	2.1 Solving Quadratic Equations by Factorisation 2.2 Solving Quadratic Equations by Completing the Square	
Week 5	2.3 Solving Quadratic Equations by using Formula 2.4 Solving Fractional Equations that can be reduced to Quadratic Equations	
Week 6	2.5 Solving quadratic by graphical method 2.6 Applications of quadratic equations in mathematical problems, real world contexts	
Week 7 (12 <sup>th</sup> -13 <sup>th</sup> Feb Mon Tue – CNY)	WA1 Revision	
Week 8	3.1 Indices 3.2 Laws of Indices	<b>WA1 - Chapter 1 and 2 lower sec topics (numbers, approximation and estimation)</b>
Week 9	3.3 Zero and Negative Indices 3.4 Rational indices	
Week 10	3.5 Compound Interest 3.6 Standard Form	
<b>March Holiday Assignment</b>		

Term 2	Chapter	Assessment
Week 1	4.1 Gradient of a Straight Line	
Week 2 (29 <sup>th</sup> Mar Fri – Good Fri)	4.2 Length of a Line Segment 4.3 Equation of a Straight Line	
Week 3	5.1 Graphs of Cubic Functions	
Week 4 (10 <sup>th</sup> Apr Wed – Hari Raya Puasa)	WA2 Revision	
Week 5	<b>Student Learning Fest</b>	<b>WA2 (Monday)</b> - Chapter 3 & 4, solving algebraic equations, lower sec topics (rate and percentage)
Week 6	5.2 Graphs of Reciprocal Functions	
Week 7 (1 <sup>st</sup> May Wed - Labour Day)	5.3 Graphs of Exponential Functions	
Week 8	5.4 Gradient of a Curve	<b>TIMED PRACTICE</b>
Week 9	5.5 Applications of Graphs in Real-World Contexts	
Week 10 (22 <sup>nd</sup> May Wed – Vesak Day)	6.1 Trigonometric Ratios	
<b>June Holiday Assignment</b>		

Term 3	Chapter	Assessment
Week 1	6.2 Applications of Trigonometric Ratios to Find Unknown Sides of Right-Angled Triangles	
Week 2 (1 <sup>st</sup> Jul Mon – Youth Day)	6.3 Applications of Trigonometric Ratios to Find Unknown Angles in Right-Angled Triangles	
Week 3	6.4 Applications of Trigonometric Ratios in Real-World Contexts	
Week 4	7.1 Sine and Cosine of Obtuse Angles	
Week 5	<b>HBL due to National Oral Examination</b> 7.2 Area of Triangles	

Week 6	WA3 Revision	
Week 7 (9 <sup>th</sup> Aug Fri – National Day)	7.3 Sine Rule	<b>WA3 - Chapter 3, 5 &amp; 6</b>
Week 8	7.4 Cosine Rule	
Week 9	8.1 Enlargement and Reduction of a Plane Figure	
Week 10 (29 <sup>th</sup> Aug Thu - Teachers' Day celeb) (30 <sup>th</sup> Aug Fri -Teachers' Day Celebration)	8.2 Scale Drawings	
<b>September Holiday Assignment</b>		
<b>Term 4</b>	<b>Chapter</b>	<b>Assessment</b>
Week 1	8.3 Solving Simple Problems involving Congruence and Similarity	
Week 2	<b>Revision</b>	
Week 3-5	<b>End-of-Year Examination</b>	
Week 6	<b>Script Check and Review of Exam Papers</b>	
Week 7	<b>Post-Exam Programmes</b>	