

**YISHUN SECONDARY SCHOOL**  
**MATHEMATICS**  
**SECONDARY 3 EXPRESS 2023**

<b>Mathematics Curriculum</b>		<b>Key Programmes</b>
In line with the requirements of the Mathematics Syllabus, teaching of Math at YSS focuses on developing thinking, reasoning and problem-solving skills using Math Modelling, investigations and making connections among mathematical concepts.		
<b>Term 1</b>	<b>Chapter</b>	<b>Assessment</b>
Week 1 (New Year's Day – Mon)	Sec One Orientation / Back to school Programme	
Week 2	1.1 Solving quadratic equations by completing the square 1.2 Solving quadratic equations by using formula 1.3 Solving fractional equations reducible to quadratic equations	
Week 3 (CNY celebration – Thursday)	1.4 Solving quadratic equations by graphical method 1.5 Sketching of graphs of quadratic functions 1.6 Applications of quadratic equations and functions in real-world	
Week 4 (CNY – Mon, Tues)	Consolidate Chapter 1 2.1 Solving simultaneous linear inequalities	
Week 5	2.2 Solving problems involving simultaneous linear inequalities Consolidate Chapter 2	
Week 6	3.1 Indices 3.2 Laws of indices 3.3 Zero and negative indices	
Week 7	3.4 Rational indices Revise for WA1	
Week 8	3.5 Compound Interest 3.6 Standard Form	T1W8 - WA1 Sec 3: Chap 1 – 3.4 Sec 2: Algebra
Week 9	Consolidate Chapter 3 4.1 Gradient of a Straight Line	
Week 10	4.2 Length of a Line Segment 4.3 Equation of a Straight Line	
<b>March Holiday Assignment</b>		
<b>Term 2</b>	<b>Chapter</b>	<b>Assessment</b>
Week 1	Consolidate Chapter 4 5.1 Graphs of cubic functions	
Week 2 (HBL – Fri)	5.2 Graphs of reciprocal functions 5.3 Graphs of exponential functions	
Week 3 (Good Fri)	5.4 Gradient of curve 5.5 Applications of graph in real-world context	
Week 4 (HBL – Fri)	Consolidate Chapter 5 Revision for WA2	
Week 5	6.1 Sine and cosine of obtuse angles	T2W5 – WA2 Chapter 3.5 – 5.4

Week 6 (Hari Raya Mon) (HBL – Fri)	Student Learning Festival	
Week 7 (Labour Day, Mon)	6.2 Area of triangle 6.3 Sine rule	
Week 8 (HBL – Fri)	6.4 Cosine rule Consolidate Chapter 6	
Week 9	7.1 Angles of elevation and depression	
Week 10	7.2 bearings	
<b>June Holiday Assignment</b>		
<b>Term 3</b>	<b>Chapter</b>	<b>Assessment</b>
Week 1 (Hari Raya Haji – Thurs)	7.3 Three-dimensional problems Consolidate Chapter 7	
Week 2 (Youth Day School Holiday – Mon)	11.1 Symmetric properties of circles	
Week 3	11.2 Angle properties of circles Consolidate properties of circles	
Week 4	8.1 Length of arc 8.2 Area of sector 8.3 Radian measure	
Week 5 (HBL 25-27 Jul)	Revise for WA3 8.4 Arc length and sector area using radian measure	
Week 6	9.1 Bisector and scale drawings	T3W6 – WA3 Chapter 5.5, 6, 7, 11
Week 7 (National Day – Tues (celebration) Wed (PH), Thurs (School Holiday))	9.2 Congruence tests	
Week 8	9.3 Similarity tests	
Week 9	9.4 Applications of congruent and similar triangles 10.1 Area of similar figures	
Week 10 (Teachers' Day Celebration-Thu, Teachers' Day-Fri)	10.2 Volume of Similar solids 10.3 Solving problems involving similar solids Consolidate chapter 9 and 10	
<b>September Holiday Assignment</b>		
<b>Term 4</b>	<b>Chapter</b>	<b>Assessment</b>
Week 1	<b>Revision</b>	
Week 2	<b>Revision</b>	
Week 3	<b>Revision</b>	
Week 4 - 5	<b>End of Year Examination</b>	
Week 6	<b>Script Checking and Review of Exam Papers</b>	
Week 7	<b>Post-Exam Programmes</b>	