

**YISHUN SECONDARY SCHOOL**  
**ADDITIONAL MATHEMATICS**  
**SECONDARY 3 NORMAL (ACADEMIC) 2023**

Mathematics Curriculum		Key Programmes
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.		
Term 1	Chapter	Assessment
Week 1 (New Year's Day – Mon)	Back to School Programme	
Week 2	1.1 Quadratic functions of the form $y = a(x - p)(x - q)$	
Week 3 (HBL – Fri)	1.2 Quadratic functions of the form $y = a(x - h)^2 + k$	
Week 4 (CNY - Mon, Tue)	1.3 Conditions for quadratic curve to lie completely above or below x-axis	
Week 5 (HBL – Fri)	1.4 Quadratic functions in real-world contexts 2.1 Solving quadratic equations by completing the square	
Week 6	2.2 Solving quadratic equations using Quadratic Formula 2.3 Solving linear and non-linear simultaneous equations	
Week 7 (HBL – Fri)	2.4 Solving quadratic inequalities	
Week 8	Revision for WA1	
Week 9 (HBL – Fri)	3.1 Surds 3.2 Simplifying expressions involving surds	Week 9: WA1 Chapter 1 – 2
Week 10	3.3 Solving equations involving surds	
March Holiday Assignment (SLS lesson on 4.1 Polynomials)		
Term 2	Chapter	Assessment
Week 1	4.1 Polynomials	
Week 2 (HBL – Fri)	4.2 Remainder and Factor Theorem	
Week 3 (Good Fri)	4.3 Cubic expressions, equations and identities	
Week 4 (HBL – Fri)	4.4 Partial Fractions	
Week 5		
Week 6 (Hari Raya Puasa off in lieu Mon) (HBL – Fri)	Student Learning Festival 7.1 Mid-point of a Line Segment (SLS)	

Week 7 (Labour Day – Mon)	Revision for WA2	
Week 8 (HBL – Fri)	7.2 Parallel and perpendicular lines 7.3 Equation of straight line	Week 8: WA2 Chapter 3, 4
Week 9	7.4 Areas of rectilinear figures	
Week 10	7.5 Equations of Circles	
<b>June Holiday Assignment (Revision Worksheet for Chapter 7)</b>		

<b>Term 3</b>	<b>Chapter</b>	<b>Assessment</b>
Week 1 (Hari Raya Haji - Thu)	9.1 Trigonometric Ratios of acute angles and special angles	
Week 2 (Youth Day – Mon)	9.2 Trigonometric Ratios of general angles	
Week 3	9.3 Trigonometric functions and graphs	
Week 4	10.1 Trigonometric equations	
Week 5 (HBL 25-27 Jul)		
Week 6	10.2 Trigonometric identities	
Week 7 (National Day – Wed, School Hols – Thur)	10.3 Addition Formulae	
Week 8	10.4 Double Angle Formulae	
Week 9	Revision for WA3	
Week 10 (Teachers' Day Celebration-Thurs, Teachers' Day-Fri)	10.5 Proving of identities 10.6 R-formula	Week 10: WA3 7, 9 and 10.1 to 10.2
<b>September Holiday Assignment (2022 EOY paper)</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> <b>End-of-Year Exam (25 to 26 Sep)</b>	
Week 4-5	<b>End-of-Year Examination (2 to 9 Oct)</b>	
Week 6	<b>Script Checking (12 to 17 Oct) and Review of Exam Papers</b>	
Week 7	<b>Post-Exam Programmes</b>	