

**YISHUN SECONDARY SCHOOL
MATHEMATICS
SECONDARY 2 G3 2024**

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 (1 st Jan Mon-New Year's day)	Back to School Programme	
Week 2	1.1: Equations of Straight Lines	
	1.2: Graphs of Linear Equations in the form, $ax + by = k$	
	1.3: Solving Simultaneous Linear Equations using Graphical Method	
Week 3	1.4: Solving Simultaneous Linear Equations using Algebraic Methods (Elimination & Substitution)	
	1.5: Applications of Simultaneous Equations in Real-world Contexts	
Week 4	2.1: Simple Inequalities	
	2.2: Solving Simple Linear Inequalities	
	2.3: Solving Problems involving Linear Inequalities	
Week 5	3.1: Addition and Subtraction of Quadratic Expressions	WA1 (Chp 1, Chp 2.1 and 2.2)
	3.2: Expansion of Algebraic Expressions of the form, $(a + b)(c + d)$	
Week 6	3.3: Expansion of Quadratic Expressions	
	3.4: Factorisation of Quadratic Expressions	
Week 7 (12 th -13 th Feb Mon Tue – CNY)	3.5: Factorisation of Algebraic Expressions into the form, $(a + b)(c + d)$	
Week 8	4.1: Expansion using Special Algebraic Identities	
	4.2: Factorisation using Special Algebraic Identities	

Week 9	5.1: Solving Quadratic Equations by Factorisation	
	5.2: Quadratic Functions and Graphs	
Week 10	5.2: Quadratic Functions and Graphs	
	6.1: Algebraic Fractions	
March Holiday Assignment (Revision worksheet – Chp 2 to 5)		

Term 2	Chapter	Assessment
Week 1	6.2: Multiplication and Division of Algebraic Fractions	
	6.3: Addition and Subtraction of Algebraic Fractions	
Week 2 (29 th Mar Fri – Good Fri)	6.4: Solving Equations involving Algebraic Fractions	
	6.5: Manipulation of Algebraic Formulae	
Week 3	7.1: Direct Proportion	
	7.2: Algebraic and Graphical Representations of Direct Proportion	
Week 4 (10 th Apr Wed – Hari Raya Puasa)	7.3: Other Forms of Direct Proportion	
	7.4: Inverse Proportion	
Week 5	Student Learning Fest	
Week 6	7.5 Algebraic and Graphical Representation on Inverse Proportion	
	7.6: Other Forms of Inverse Proportion	
Week 7 (1 st May Wed - Labour Day)	8.1: Congruent Figures	
	8.2: Similar Figures	
Week 8	8.3: Similarity & Enlargement	
	9.1: Pythagoras' Theorem	
Week 9	9.2: Applications of Pythagoras' Theorem in Real-world Contexts	WA2 (Chp 2.3, Chp 3 to 6, Chp 7.1 to 7.3)
Week 10 (22 nd May Wed – Vesak Day)	9.3: Converse of Pythagoras' Theorem	
June Holiday Assignment: Online learning Chp 14 (Flipped classroom)		

Term 3	Chapter	Assessment
Week 1	14.2 Median	
	14.4 Measure of central tendency	
Week 2 (1 st Jul Mon – Youth Day)	10.1: Trigonometric Ratios	
	10.2: Applications of Trigonometric Ratios (Unknown Sides of Right-angled Triangles)	
Week 3	10.3: Applications of Trigonometric Ratios (Unknown Angles in Right-angled Triangles)	
	10.4: Applications of Trigonometric Ratios in Real-world Contexts	
Week 4	13.1 Dot Diagrams	
	13.2 Histograms for ungrouped data	
Week 5	HBL due to National Oral Examination 13.3 Stem-and-leaf diagrams	
	13.4 Histograms for grouped data	
Week 6	11.1: Volume and Surface Area of Pyramids	
Week 7 (9 th Aug Fri – National Day)	11.2: Volume and Surface Area of Cones	WA3 (Chp 7.4 to 7.6, Chp 8, 9, 10, 13, 14)
Week 8	11.3: Volume and Surface Area of Spheres	
	11.4: Volume and Surface Area of Composite Solids	
Week 9	12.1: Probability Experiment and Sample Space	
	12.2: Probability of Single Events	
Week 10 (29 th Aug Thu - Teachers' Day celeb) (30 th Aug Fri -Teachers' Day Celebration)	12.3: Further Examples of Probability of Single Events	
September Holiday Assignment (Revision Worksheet – Chp 11 + 12)		
Term 4	Chapter	Assessment
Week 1	12.4: Experimental Approach to Finding Probability	
	Revision	
Week 2	Revision	
Week 3 – 5	End of Year Examination	
Week 6	Script Checking and Review of Exam Papers	
Week 7	Post-Exam Programmes	