

YISHUN SECONDARY SCHOOL
MATHEMATICS
SECONDARY 3 EXPRESS 2020

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.		Learning Journey
Term 1	Chapter	Assessment
Week 1	Quadratic Equations and Functions 1.1 Completing the square 1.2 Quadratic Formula (cover a bit)	
Week 2	1.2 Quadratic Formula 1.3 Solving Quadratic Equation by graphical Method 1.4 Fractional Equation and Manipulation	
Week 3 (CNY celeb on Fri)	1.5 Application of quadratic equation in real world context 1.6 Sketching of quadratic equation	
Week 4 (CNY -Mon, Tue)	Consolidation chpt 1 3.1 Indices 3.2 Laws of indices	
Week 5	3.3 zero & negative indices 3.4 Rational indices + solving Consolidation on indices	
Week 6	3.5 compound interest Mind your money activity	
Week 7	3.6 Standard Form consolidation on chpt 3 buffer for WA1	WA1 Chapter 1, 3 to 3.4, Sec 2 : Expansion, simplification of algebraic expressions
Week 8	2.1 inequalities link inequalities to graphical representation 2.2 Problem solving involving inequalities	
Week 9	2.3 Simultaneous inequalities Consolidation on chpt 2	
Week 10	4.1 Gradient of straight line 4.2 Length of line segment + Area of triangle 4.3 Equation of straight line	
March Holiday Assignment		
Term 2	Chapter	Assessment
Week 1	4.3 Equation of straight line Consolidation on chpt 4	
Week 2	Revision on trigo ratio (TOA CAH SOH) SLS 6.1 Sine and Cosine of obtuse angles 6.2 Area of triangle	
Week 3 (Good Fri on Fri)	6.3 Sine Rule (Save MJ) 6.4 Cosine Rule	
Week 4	Consolidation Flagpole Activity + sum up using MM model	
Week 5	7.1 Angle of elevation and depression 7.2 Bearings 7.3 3D problems	

Week 6 (Labour Day-Fri)	Consolidate. (Do exam types of trigonometry questions.)	
Week 7 (Vesak Day-Thurs)	Note that I did not follow TB style 5-1 Graphs of cubic functions, reciprocal functions, exponential functions (sketching (not for 3E5), matching functions)	WA2 (Chapter 3.5,3.6, 2, 4, 6,7)
Week 8	5-2 Given drawn out graphs, answer questions. (Also cover concept of simultaneous equations) 5-3 Gradient of curve	
Week 9 (Gardens by the bay - Thu)	5-4 Draw own graph and answer questions Consolidation 5.5 Appn of graphs in real world context Consolidation of chpt 5	
Week 10 (Hari Raya Puasa-Mon)	Blocked out for School activities	

June Assignment (Math Modelling/Real-world context)

Term 3	Chapter	Assessment
Week 1	11.1 Symmetric properties of circles	
Week 2 (Youth Day, Mon)	11.2 Angle properties of circles	
Week 3	Consolidation for Chp 11 Full questions on Geometrical properties of circles	
Week 4	8.1 Arc length 8.2 Sector Area 8.3 Radian Measure (SLS)	
Week 5 (Hari Raya Haji-Fri)	8.4 Arc length and sector area using radian measure Treasure hunt Consolidation for chpt 8	
Week 6	9.1 Congruence Tests 9.2 Similarity tests	
Week 7 (National Day -Mon)	9.3 Application of congruency and similarity tests Consolidation for chpt 9	WA3 (Chapter 5, 11, 8)
Week 8	10.1 Area of similar figures	
Week 9	10.2 Volume of similar solids	
Week 10 (Teachers' Day Celebration-Thurs, Teachers' Day-Fri)	Consolidation for chapter 10	

September Holiday Assignment

Term 4	Chapter	Assessment
Week 1		Revision
Week 2		Revision Advance Paper (Thurs)
Week 3 -5		End of Year Examination and Script Checking
Week 6		Headstart Programme