

YISHUN SECONDARY SCHOOL
ADDITIONAL MATHEMATICS
SECONDARY 4 NORMAL ACADEMIC 2020

Mathematics Curriculum		Key Programmes
In line with the requirements of the A Mathematics Syllabus, the teaching of A Math at YSS focuses on developing thinking, reasoning and problem-solving skills using Math Modelling, investigation, making conjectures, proofs and making connections among mathematical concepts.		
Term 1	Chapter	Assessment
Week 0	Administrative	
Week 1	Revision on Chapter 11	
Week 2	Chapter 12 Further Trigonometric Equations	
Week 3	Simple Identities	
Week 4 (CNY-Mon, Tue)	Chapter 13 Further Trigonometric Identities	Quiz 1 Chp 11 Trigonometry and Binomial Theorem
Week 5	The Addition and Double Angle Formulae	
Week 6	The R-Formulae	
Week 7	Chapter 14 The derivative and its Basic Rules	Quiz 2 Trigonometry Chp 11 - 13 Chp 9 parabolas and Circles
Week 8	Chain Rule and Product Rule	
Week 9	Chapter 15: Equations of tangents and Normals	WA1 Chap 11, 12, 13 - Trigonometry Topics 14.1, 14.2 - Differentiation
Week 10	Increasing and Decreasing Functions	
March Holiday Assignment		
Term 2	Chapter	Assessment
Week 1	Chapter 15: Rates of Change,	
Week 2	Connected rates of change	
Week 3 (Good Fri-Fri)	Chapter 16: Maxima and Minima Coordinates of stationary points	
Week 4	Nature of stationary points - First and second derivative tests	Quiz 3 Chp 14-15 Differentiation
Week 5	Apply stationary points to solve practical problems	
Week 6 (Labour Day-Fri)	Revision	WA2 Chap 14, 15, 16 - Differentiation
Week 7 – 9 (Vesak Day-Thurs)	Mid-Year Examination and Script Checking	
Week 10	Values Week	
June Assignment		
Term 3	Chapter	Assessment
Week 1	18.1 Indefinite Integral	
Week 2 (Youth Day, Mon)	18.2 Definite Integral	

Week 3	18.2 Problems involving differentiation and Integration	
Week 4	19.1 Area between a Curve and an Axis	Quiz 4 Chp 16 and Chp 18 Differentiation and Integration
Week 5 (Hari Raya Haji-Fri)	19.2 Area between a Curve and a Line	
Week 6	Revision	WA3 Chap 16, 18, 19 - Differentiation and Integration with Applications
Week 7 (National Day -Mon)		Preliminary Examination
Week 8		Preliminary Examination
Week 9	Script Checking	
Week 10 (Teachers' Day Celebration-Thurs, Teachers' Day-Fri)	Focused Revision	Other school Prelim Papers
September Holiday Assignment		
Term 4	Chapter	Assessment
Week 1		GCE N Level Written Examination
Week 2-3	Focused Revision	
Week 4 -5		GCE N Level Written Examination
Week 6 -10		GCE O Level Written Examination