YISHUN SECONDARY SCHOOL ADDITIONAL MATHEMATICS SECONDARY 4 EXPRESS 2024

Mathematics Curriculum		Key Programmes
Math at YSS focuses problem-solving skills	ements of the Mathematics Syllabus, teaching of on developing thinking, reasoning and using Math Modelling, investigations and making nathematical concepts.	
Term 1	Chapter	Assessment
Week 1	(Tue - Thurs) Back to School Programme	7.00000
Week 2	Chapter 10: Trigonometric Equations & Identities	
	10.1 Trigonometric Equations	
Week 3	10.1 Trigonometric Equations	
Week 4	10.2 Trigonometric identities	
	10.3 Addition Formulae	
Week 5	10.4 Double Angle Formulae	
	Revision for WA1	
Week 6	10.5 Proving of identities	WA1:
	10.6 R-Formulae	Ch 9, 10.1 - 10.4
Week 7 (12 -13 Feb Mon Tue – CNY)	Chapter 11- Gradients, Derivatives & Differentiation Techniques	
	11.1 Derivatives and gradient functions	
	11.2 Five rules of differentiation	
	11.2 Five rules of differentiation	
Week 8	11.3 Higher derivatives	
Week 9	11.4 Increasing and decreasing functions	
	Chapter 12: Applications of Differentiation	
	12.1 Equations of tangent and normal	
	Go through WA1 paper	
Week 10	12.2 Rates of change	
Ma	arch Holiday Assignment (YSS Mid-Year 2022 p	aper)
Term 2	Chapter	Assessment
Week 1	12.3 Stationary points	
Week 2		
(29 Mar Fri – Good Fri)	12.4 Maximisation and minimisation problems	

Week 3	Chapter 14-Integration 14.1 Integration as reverse of differentiation 14.2 Two rules of integration 14.3 Integration of power functions	
Week 4 (10 Apr Wed – Hari Raya Puasa)	Chapter 13: Differentiation of Trigonometric, Exponential & Logarithmic Functions and their Applications 13.1 Derivatives of trigonometric functions	
Week 5	Student Learning Fest	
Week 6	13.2 Derivatives of exponential functions 13.3 Derivatives of logarithmic functions	
Week 7 (1 May Wed - Labour Day)	13.4 Further applications of differentiation 14.4 Integration of trigonometric functions	
Week 8	14.5 Integration of exponential functions 14.6 Integration of functions of the form $\frac{1}{x}$ and $\frac{1}{ax+b}$ 14.7 Further examples of integration	WA2 (1.5h) Ch 10.5 – 10.6, 11 – 13, 14.1 – 14.3, 2, 3, 6
Week 9	14.7 Further examples of integration Chapter 15: Applications of Integration 15.1 Definite Integrals Go through WA2	
Week 10 (22 May Wed – Vesak Day)	Mother Tongue Intensive Programme	
Term 3	June Holiday Assignment (2019 P2 O level pap Chapter	er) Assessment
Week 1	Chapter 15: Applications of Integration 15.2 Further examples of definite integrals 15.3 Area under a curve	Assessificiti
Week 2 1 Jul Mon – Youth Day	Chapter 16- Kinematics 16.1 Key concepts in kinematics 16.2 Application of differentiation in kinematics	

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Week 3	16.3 Application of integration in kinematics Chapter 17 - Proofs in Plane Geometry 17.1 Basic proofs in plane geometry 17.2 Proofs using congruent and similar triangles	Practice 1 (P1)
Week 4	17.3 Proofs using quadrilateral properties 17.4 Tangent-Chord Theorem (Alternate Segment Theorem)	
Week 5 (National Oral Exam: Tue – Thu) HBL 23-25 Jul	Topical Revision	
Week 6	Revision (O Level 2021)	
Week 7 (9 th Aug Fri – National Day)	Revision (O Level 2022)	Timed-Practice (P2)
Week 8	Revision (O Level 2023) Preliminary Examination (15 to 28 Aug)	Prelim All Sec 3 to 4 topics
Week 9	Preliminary Examination	
Week 10 (29 th Aug Thu - Teachers' Day celeb) (30 th Aug Fri -Teachers' Day	Preliminary Examination	
Celebration)		
Celebration)	otember Holiday Assignment (2019 P1 O level pa	apers)
Celebration)	otember Holiday Assignment (2019 P1 O level pa	apers) Assessment
Celebration) Sep		Assessment
Celebration) Sep Term 4	Chapter	Assessment
Celebration) Sep Term 4 Week 1	Chapter Sec 4E5N Script Check and Review of Exam s	Assessment
Celebration) Sep Term 4 Week 1 Week 2	Chapter Sec 4E5N Script Check and Review of Exam s Intensive Revision	Assessment
Celebration) Sep Term 4 Week 1 Week 2 Week 3	Chapter Sec 4E5N Script Check and Review of Exam s Intensive Revision Intensive Revision	Assessment