

**ZYISHUN SECONDARY SCHOOL
ELEMENTARY MATHEMATICS
SECONDARY 4 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.		
Term 1	Chapter	Assessment
Week 0	--	
Week 1	4.2 Similar Figures 4.3 Area of Similar Figure	
Week 2	4.4 Volume of Similar Figure Graphs in Practical Situations	
Week 3	1.1 Set Language	Quiz 1 - Congruency and Similarity - Ratio and Proportion, Scales and Maps
Week 4 (CNY-Mon, Tue)	1.2 Venn Diagrams and Complement of a Set 1.3 Union and Intersection of Sets	
Week 5	2.1 Cumulative Frequency Diagrams	Quiz 2 - Graphs in Practical Situations - Polygon, - Properties of Circles Circle Properties
Week 6	2.2 Range, Quartiles, Interquartile Range and Percentiles 2.3 Box-and-Whisker Plots	
Week 7	2.4 Standard Deviation for Ungrouped Data	WA1 Sec 4 topics: Set Language and Notation Sec 3 topics: Congruency and Similarity Area/Vol of similar figures Graphs in Practical Situations
Week 8	2.5 Standard Deviation for Grouped Data	
Week 9	3.1 Probabilities of Simple Combined Events 3.2 Addition of Probabilities	
Week 10	3.3 Multiplication of Probabilities	Quiz 3 - Statistics - Trigonometry - Simple and compound interest - Indices and standard form
March Holiday Assignment		
Term 2	Chapter	Assessment
Week 1	4.1 – 4.2 Definition of a Matrix, Addition and Subtraction of Matrices	
Week 2	4.3 – 4.4 Multiplication of a Matrix by a Scalar, Multiplication of Matrices	
Week 3	5.1 Introduction to Vectors	

(Good Fri-Fri)	5.2 Operations on Vectors		
Week 4	5.3 Position Vectors	WA2: - Statistics (Standard Deviation) - Probability - Matrices - Coordinate Geometry - Linear Inequalities	
Week 5	5.4 Applications of Vectors in Geometry		
Week 6 (Labour Day-Fri)	Revision Advance Paper (Thur, Fri)		
Week 7 – 9 (Vesak Day-Thurs)	Preliminary Examination and Script Checking		
Week 10	Intensive Mother Tongue		
June Assignment			
Term 3	Chapter	Assessment	
Week 1	Revision Topic 1 – Numbers, Ratio, Rate and Proportion Revision Topic 2 – Percentage and Speed		
Week 2 (Youth Day, Mon)	Revision Topic 3 – Algebraic Manipulation and Formulae Revision Topic 4 – Functions and Graphs		
Week 3 -4	Revision Topic 5 – Equations and Inequalities Revision Topic 6 – Set Language and Matrices	Quiz - Problems in real world context - Mensuration - Numbers, Percentage, Rate & Speed, number pattern	
Week 5 (Hari Raya Haji-Fri)	Revision Topic 7 – Angles, Polygons, Congruence and Similarity Revision Topic 8 – Properties of Circles		
Week 6	Revision Topic 9 – Trigonometry Revision Topic 10 – Mensuration	Mock Paper (TBC)	
Week 7 (National Day - Mon)	Revision Topic 9 – Trigonometry Revision Topic 10 – Mensuration	WA3 -Paper 1/ Paper 2	
Week 8	Revision Topic 11 – Coordinate Geometry and Vectors in Two Dimensions Revision Topic 12 – Statistics and Probability		
Week 9	Preliminary Examination		
Week 10 (Teachers’ Day Celebration-Thurs, Teachers’ Day-Fri)	Preliminary Examination		
September Holiday			
Term 4	Chapter		
Week 1	Preliminary Examination		

Week 2	Script Checking
Week 3 -5	Focused Revision
Week 6 -10	GCE O Level Written Examination