

Peicai Secondary School
Subject Overview 2023
Mathematics [Secondary Three (Express)]

Semester 1			
Term 1 [3 Jan – 10 Mar]			
Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Weighted Assessment
Week 1 [2 Jan – 6 Jan]	Level Programme		
Week 2 [9 Jan – 13 Jan]	Level Programme		
Week 3 [16 Jan – 20 Jan]	1.1 Solving Quadratic Equations by Completing the Square 1.2 Solving Quadratic Equations by Using Quadratic Formula	Ex 1.1 Ex 1.2	
Week 4 [23 Jan – 27 Jan] <i>22 & 23 Jan – Chinese New Year 24 Jan Public Holiday</i>	1.3 Solving Quadratic Equations by Using Graphical Method	Ex 1.3	
Week 5 [30 Jan – 3 Feb] HBL #1 [1 Feb]	1.6 Sketching the Graphs of Quadratic Functions 1.4 Solving Fractional Equations that can be Reduced to Quadratic Equations	Ex 1.6 Ex 1.4	
Week 6 [6 Feb – 10 Feb]	1.5 Solving Real-world Problems Involving Quadratic Equations 2.1 Notations and Basic Properties of Inequalities	Ex 1.5 Ex 2.1	
Week 7 [13 Feb – 17 Feb] HBL #2 [15 Feb]	2.2 Simultaneous Linear Inequalities 2.3 Applications of Simultaneous Linear Inequalities	Ex 2.2 Ex 2.3	
Week 8 [20 Feb – 24 Feb]	3.1 Positive Integer Indices and Laws of Indices 3.2 Zero and Negative Integer Indices	Ex 3.1 Ex 3.2	
Week 9 [27 Feb – 3 Mar] HBL #3 [1 Mar]	3.3 Fractional Indices WA1 Revision	Ex 3.3	Weighted Assessment 1 (WA1) Paper duration: 1 h Total marks: 40 Curriculum Time: Revision
Week 10 [6 Mar – 10 Mar]	3.4 Solving Equations Involving Indices 3.5 Standard Form WA1 Error Analysis	Ex 3.4 Ex 3.5	

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Term 2 [20 Mar – 26 May]			
Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Weighted Assessment
Week 1 [20 Mar – 24 Mar] HBL #4 [22 Mar]	3.6 Application of Indices to Compound Interest	Ex 3.6	
Week 2 [27 Mar – 31 Mar]	4.1 Gradient of a Straight Line 4.2 Equation of a Straight Line	Ex 4.1 Ex 4.2	Weighted Assessment 2 (WA2) Period: Week 2 to Week 5 Alternative Assessment Total marks: 40
Week 3 [3 Apr – 7 Apr] HBL #5 [5 Apr] <i>7 Apr – Good Friday</i>	4.3 Length of a Line Segment 4.4 Geometric Problems Involving the Use of Coordinates	Ex 4.3 Ex 4.4	
Week 4 [10 Apr – 14 Apr]	5.1 Graphs of Power Functions 5.2 Graphs of Exponential Functions	Ex 5.1 Ex 5.2	
Week 5 [17 Apr – 21 Apr] HBL #6 [19 Apr]	5.3 Gradients of Curves 5.4 Graphs of Simple Sums of Power Functions	Ex 5.3 Ex 5.4	
Week 6 [24 Apr – 28 Apr] <i>22 Apr – Hari Raya Puasa</i> <i>24 Apr School Holiday</i>	5.5 Graphs in Practical Situations 9.1 Arc Lengths	Ex 5.5 Ex 9.1	
Week 7 [1 May – 5 May] HBL #7 [3 May] <i>1 May – Labour Day</i> <i>3 Jul School Holiday</i>	9.2 Sector Areas and Segment Areas	Ex 9.2	
Week 8 [8 May – 12 May]	9.3 Radian Measure 9.4 Arc Length and Sector Area in Radian Measure	Ex 9.3 Ex 9.4	
Week 9 [15 May – 19 May] HBL #8 [17 May]	7.1 Sine and Cosine Ratios of Obtuse Angles 7.2 Formula for the Area of a Triangle	Ex 7.1 Ex 7.2	
Week 10 [22 May – 26 May]	7.3 The Sine Rule 7.4 The Cosine Rule	Ex 7.3 Ex 7.4	

The subject overview is tentative and is subject to changes.