

**Peicai Secondary School**  
**Subject Overview 2023**  
**Additional 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] <i>CNY celebration, 20 Jan (Fri)</i>	<b>Chapter 3: Surds</b> 3.1 Manipulating Surds 3.2 Solving Equations Involving Surds	Ex 3.1 Ex 3.2	
Week 4 [23 Jan – 27 Jan] <i>22 &amp; 23 Jan – Chinese New Year 24 Jan Public Holiday</i>	<b>Chapter 1: Quadratic Functions</b> 1.1 Maximum and Minimum Values	Ex 1.1	
Week 5 [30 Jan – 3 Feb] <b>HBL #1 [1 Feb]</b>	1.3 Applications of Quadratic Functions  <b>Chapter 2: Equations and Inequalities</b> 2.1 Simultaneous Equations	Ex 1.3  Ex 2.1	
Week 6 [6 Feb – 10 Feb]	(1.2 Graphical Representation of Quadratic Functions) 2.2 Nature of Roots of a Quadratic Equation	(Ex 1.2)  Ex 2.2	
Week 7 [13 Feb – 17 Feb] <b>HBL #2 [15 Feb]</b>	2.3 Quadratic Inequalities  <b>Chapter 4: Polynomials &amp; Partial Fractions</b> 4.1 Polynomials and Identities	Ex 2.3  Ex 4.1	
Week 8 [20 Feb – 24 Feb]	4.2 The Remainder and Factor Theorems 4.3 Cubic Polynomials and Equations	Ex 4.2 Ex 4.3	
Week 9 [27 Feb – 3 Mar] <b>HBL #3 [1 Mar]</b>  WA1	4.4 Partial Fractions  WA1 Revision	Ex 4.4	<b>Weighted Assessment 1 (WA1)</b> <ul style="list-style-type: none"> <li>• Paper duration: 1 h</li> <li>• Total marks: 40</li> </ul> <b>Curriculum Time: Revision</b>
Week 10 [6 Mar – 10 Mar]	<b>Chapter 6: Binomial Theorem</b> 6.1 Binomial Expansion of $(1 + b)^n$ 6.2 Binomial Expansion of $(a + b)^n$	Ex 6.1 Ex 6.2	

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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]	<b>Chapter 7: Coordinate Geometry</b> 7.1 Parallel Lines 7.2 Perpendicular Lines	Ex 7.1 Ex 7.2	
Week 2 [27 Mar – 31 Mar]	7.3 Midpoint of a Line Segment 7.4 Areas of Triangles and Quadrilaterals	Ex 7.3 Ex 7.4	
Week 3 [3 Apr – 7 Apr] HBL #5 [5 Apr] <i>7 Apr – Good Friday</i>	<b>Chapter 8: Circles</b> 8.1 Equation of a Circle	Ex 8.1	
Week 4 [10 Apr – 14 Apr]	<b>Chapter 5: Exponential &amp; Logarithm</b> 5.1 Exponential Equations 5.2 Graphs and Applications of Exponential Functions	Ex 5.1 Ex 5.2	
Week 5 [17 Apr – 21 Apr] HBL #6 [19 Apr]	5.3 Logarithms 5.4 Logarithmic Equations	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 and Applications of Logarithmic Functions	Ex 5.5	<b>Weighted Assessment 2 (WA2)</b> <b>Alternative Assessment</b>
Week 7 [1 May – 5 May] HBL #7 [3 May]  <i>1 May – Labour Day</i> <i>3 Jul School Holiday</i>	<b>Chapter 9: Applications of Straight-Line Graphs</b> 9.1 Transforming Equations to Linear Form	Ex 9.1	
Week 8 [8 May – 12 May]	9.2 Non-linear Equations and the Graphs of Their Corresponding Linear Forms	Ex 9.2	
Week 9 [15 May – 19 May] HBL #8 [17 May]	<b>Chapter 10: Trigonometric Functions</b> 10.1 Trigonometric Functions of Angles	Ex 10.1	
Week 10 [22 May – 26 May]	10.2 Graphs of Trigonometric Functions	Ex 10.2	

The subject overview is tentative and is subject to changes.