

**Peicai Secondary School**  
**Subject Overview for Semester 1 / 2023**  
**Mathematics [Secondary Three (NA)]**

Semester 1			
Term 1 [3 Jan – 10 Mar]			
Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Weighted Assessment
Week 1 [2 Jan – 6 Jan]	Start Smart Level Programme		
Week 2 [9 Jan – 13 Jan]	Start Smart Level Programme		
Week 3 [16 Jan – 20 Jan]	<b><u>Chapter 1: Algebraic Manipulation</u></b> <ul style="list-style-type: none"> <li>• 1.1 Factorisation by Grouping Terms</li> <li>• 1.2 Expansion of the Product of Algebraic Expressions</li> </ul>	Ex 1.1 Ex 1.2	
Week 4 [23 Jan – 27 Jan] <i>22 &amp; 23 Jan – Chinese New Year 24 Jan Public Holiday</i>	<b><u>Chapter 1: Algebraic Manipulation</u></b> <ul style="list-style-type: none"> <li>• 1.3 Addition and Subtraction of Algebraic Fractions</li> <li>• 1.4 Algebraic Formulae</li> </ul>	Ex 1.3 Ex 1.4	
Week 5 [30 Jan – 3 Feb] HBL #1 [1 Feb]	<b><u>Chapter 1: Algebraic Manipulation</u></b> <ul style="list-style-type: none"> <li>• Chapter 1 Consolidation</li> </ul> <b><u>Chapter 2: Quadratic Equations</u></b> <ul style="list-style-type: none"> <li>• 2.1 Solving Quadratic Equations by Factorisation</li> </ul>	TYS  Ex 2.1	
Week 6 [6 Feb – 10 Feb]	<b><u>Chapter 2: Quadratic Equations</u></b> <ul style="list-style-type: none"> <li>• 2.1 (Continue) Solving Quadratic Equations by Factorisation + Infuse Real-world Contexts Questions</li> <li>• 2.2 Solving Quadratic Equations by Completing the Square + Infuse Real-world Contexts Questions</li> </ul>	Ex 2.1 + TYS Ex 2.2 + TYS	
Week 7 [13 Feb – 17 Feb] HBL #2 [15 Feb]	<b><u>Chapter 2: Quadratic Equations</u></b> <ul style="list-style-type: none"> <li>• 2.2 (Continue) Solving Quadratic Equations by Completing the Square + Infuse Real-world Contexts Questions</li> <li>• 2.3 Solving Quadratic Equations by Using Quadratic Formula + Infuse Real-world Contexts Questions</li> </ul>	Ex 2.2 + TYS Ex 2.3 + TYS	
Week 8 [20 Feb – 24 Feb]	<b><u>Chapter 2: Quadratic Equations</u></b> <ul style="list-style-type: none"> <li>• 2.3 (Continue) Solving Quadratic Equations by Using Quadratic Formula + Infuse Real-world Contexts Questions</li> </ul>	Ex 2.3 + TYS Ex 2.4	

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	<ul style="list-style-type: none"> <li>• 2.4 Solving Fractional Equations That can be Reduced to Quadratic Equations</li> <li>• WA1 Revision</li> </ul>		
<p style="text-align: center;">Week 9 [27 Feb – 3 Mar] <a href="#">HBL #3 [1 Mar]</a></p>	<p><b><u>Chapter 2: Quadratic Equations</u></b></p> <ul style="list-style-type: none"> <li>• 2.4 (Continue) Solving Fractional Equations That can be Reduced to Quadratic Equations</li> <li>• WA1 Revision + WA1</li> </ul>	<p>Ex 2.4 TYS</p>	<p><b>Weighted Assessment 1 (WA1)</b> Paper duration: 1h Total marks: 40</p>
<p style="text-align: center;">Week 10 [6 Mar – 10 Mar]</p>	<p><b><u>Chapter 2: Quadratic Equations</u></b></p> <ul style="list-style-type: none"> <li>• 2.5 Applications of Quadratic Equations in Real-world Contexts</li> <li>• Review WA1</li> <li>• Chap 1 &amp; 2 consolidation</li> </ul>	<p>Ex 2.5 TYS</p>	

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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]	<u>Chapter 3: Graphs of Quadratic Functions</u> <ul style="list-style-type: none"> <li>3.1 Graphs of Quadratic Functions</li> </ul>	Ex 3.1 + TYS	
Week 2 [27 Mar – 31 Mar]	<b><u>Chapter 3: Graphs of Quadratic Functions</u></b> <ul style="list-style-type: none"> <li>3.2 Solving Quadratic Equations in One Variable by Graphical Method</li> </ul>	Ex 3.2 + TYS	<b>Weighted Assessment 2 (WA2) – Alternative Assessment (Week 2 – 5)</b> Students will be briefed
Week 3 [3 Apr – 7 Apr] HBL #5 [5 Apr]  7 Apr – Good Friday	<b><u>Chapter 4: Indices</u></b> <ul style="list-style-type: none"> <li>4.1 Positive Integer Indices and Laws of Indices</li> </ul>	Ex 4.1	<b>Weighted Assessment 2 (WA2) – Alternative Assessment (Week 2 – 5)</b> Students will be briefed
Week 4 [10 Apr – 14 Apr]	<b><u>Chapter 4: Indices</u></b> <ul style="list-style-type: none"> <li>4.2 Zero and Negative Integer Indices</li> <li>4.3 Fractional Indices</li> </ul>	Ex 4.2 Ex 4.3	<b>Weighted Assessment 2 (WA2) – Alternative Assessment (Week 2 – 5)</b> Students will be briefed
Week 5 [17 Apr – 21 Apr] HBL #6 [19 Apr]	<b><u>Chapter 4: Indices</u></b> <ul style="list-style-type: none"> <li>4.4 Solving Equations Involving Indices</li> </ul>	Ex 4.4 + TYS	<b>Weighted Assessment 2 (WA2) – Alternative Assessment (Week 2 – 5)</b> Students will be briefed
Week 6 [24 Apr – 28 Apr]  22 Apr – Hari Raya Puasa 24 Apr School Holiday	<b><u>Chapter 4: Indices</u></b> <ul style="list-style-type: none"> <li>4.5 Standard Form</li> <li>4.6 Application of Indices to Compound Interest</li> </ul>	Ex 4.5 Ex 4.6	
Week 7 [1 May – 5 May] HBL #7 [3 May]  1 May – Labour Day 3 Jul School Holiday	<b><u>Chapter 4: Indices</u></b> <ul style="list-style-type: none"> <li>4.6 (Continue) Application of Indices to Compound Interest</li> <li>Chap 3 &amp; 4 consolidation</li> </ul>	Ex 4.6 TYS	
Week 8 [8 May – 12 May]	<ul style="list-style-type: none"> <li>WA2 Alternative Assessment</li> </ul> <b><u>Chapter 5: Congruence and Similarity</u></b> <ul style="list-style-type: none"> <li>5.1 Enlargement and Reduction of a Plane Figure</li> <li>5.2 Problems Involving Congruence and Similarity</li> </ul>	Ex 5.1 Ex 5.2 TYS	
Week 9 [15 May – 19 May] HBL #8 [17 May]	<b><u>Chapter 5: Congruence and Similarity</u></b> <ul style="list-style-type: none"> <li>5.3 Perpendicular Bisectors, Angle Bisectors and Scale Drawings</li> </ul>	Ex 5.4 + TYS	
Week 10 [22 May – 26 May]	<ul style="list-style-type: none"> <li>Chap 3, 4 &amp; 5 consolidation</li> </ul>	Chapter Review + TYS	

The subject overview is tentative and is subject to changes.