

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

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	<ul style="list-style-type: none"> • 2.4 Solving Fractional Equations That can be Reduced to Quadratic Equations • WA1 Revision 		
<p style="text-align: center;">Week 9 [27 Feb – 3 Mar] HBL #3 [1 Mar]</p>	<p><u>Chapter 2: Quadratic Equations</u></p> <ul style="list-style-type: none"> • 2.4 (Continue) Solving Fractional Equations That can be Reduced to Quadratic Equations • WA1 Revision + WA1 	<p>Ex 2.4 TYS</p>	<p>Weighted Assessment 1 (WA1) Paper duration: 1h Total marks: 40</p>
<p style="text-align: center;">Week 10 [6 Mar – 10 Mar]</p>	<p><u>Chapter 2: Quadratic Equations</u></p> <ul style="list-style-type: none"> • 2.5 Applications of Quadratic Equations in Real-world Contexts • Review WA1 • Chap 1 & 2 consolidation 	<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"> 3.1 Graphs of Quadratic Functions 	Ex 3.1 + TYS	
Week 2 [27 Mar – 31 Mar]	<u>Chapter 3: Graphs of Quadratic Functions</u> <ul style="list-style-type: none"> 3.2 Solving Quadratic Equations in One Variable by Graphical Method 	Ex 3.2 + TYS	
Week 3 [3 Apr – 7 Apr] HBL #5 [5 Apr] <i>7 Apr – Good Friday</i>	<u>Chapter 4: Indices</u> <ul style="list-style-type: none"> 4.1 Positive Integer Indices and Laws of Indices 	Ex 4.1	
Week 4 [10 Apr – 14 Apr]	<u>Chapter 4: Indices</u> <ul style="list-style-type: none"> 4.2 Zero and Negative Integer Indices 4.3 Fractional Indices 	Ex 4.2 Ex 4.3	
Week 5 [17 Apr – 21 Apr] HBL #6 [19 Apr]	<u>Chapter 4: Indices</u> <ul style="list-style-type: none"> 4.4 Solving Equations Involving Indices 	Ex 4.4 + TYS	
Week 6 [24 Apr – 28 Apr] <i>22 Apr – Hari Raya Puasa</i> <i>24 Apr School Holiday</i>	<u>Chapter 4: Indices</u> <ul style="list-style-type: none"> 4.5 Standard Form 4.6 Application of Indices to Compound Interest 	Ex 4.5 Ex 4.6	Weighted Assessment 2 (WA2) Alternative Assessment
Week 7 [1 May – 5 May] HBL #7 [3 May] <i>1 May – Labour Day</i> <i>3 Jul School Holiday</i>	<u>Chapter 4: Indices</u> <ul style="list-style-type: none"> 4.6 (Continue) Application of Indices to Compound Interest Chap 3 & 4 consolidation 	Ex 4.6 TYS	
Week 8 [8 May – 12 May]	<ul style="list-style-type: none"> WA2 Alternative Assessment <u>Chapter 5: Congruence and Similarity</u> <ul style="list-style-type: none"> 5.1 Enlargement and Reduction of a Plane Figure 5.2 Problems Involving Congruence and Similarity 	Ex 5.1 Ex 5.2 TYS	
Week 9 [15 May – 19 May] HBL #8 [17 May]	<u>Chapter 5: Congruence and Similarity</u> <ul style="list-style-type: none"> 5.3 Perpendicular Bisectors, Angle Bisectors and Scale Drawings 	Ex 5.4 + TYS	
Week 10 [22 May – 26 May]	<ul style="list-style-type: none"> Chap 3, 4 & 5 consolidation 	Chapter Review + TYS	

The subject overview is tentative and is subject to changes.