

Peicai Secondary School
 Subject Overview for Semester 1 2023
 Mathematics | Secondary 2 | Express

TERM 1 [3 Jan – 10 Mar]			
Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Weighted Assessment
Week 1 [2 Jan – 6 Jan]	Start Smart Program	-	-
Week 2 [9 Jan – 13 Jan]	Start Smart Program	-	-
Week 3 [16 Jan – 20 Jan]	Chapter 11 Statistical Diagrams		
<i>CNY Celebrations 20 Jan (Fri)</i>	11.1 Dot Diagrams 11.2 Histograms 11.3 Stem-and-Leaf Diagrams	Refer to SLS package assigned	
Week 4 [23 Jan – 27 Jan]	Chapter 12 Measures of Central Tendencies		
<i>CNY 23 & 24 Jan (Mon & Tues)</i>	12.1 Mean Refer to SLS package assigned	TB (2B) p.138 Ex 12.1 Level 1: Q3, Q4 Level 2: Q6, Q9, Q10, Q11 Level 3: Q16, Q22	
	12.2 Median Refer to SLS package assigned	TB (2B) p.145 Ex 12.2 Level 1: Q2 Level 2: Q3, Q4, Q7, Q8 Level 3: Q11	
	12.3 Mode Refer to SLS package assigned	TB (2B) p.154 Ex 12.3 Level 1: Q1, Q2 Level 2: Q4, Q5 Level 3: Q8, Q9	
Week 5 [30 Jan – 3 Feb]	Chapter 1 Linear Inequalities		
<i>HBL #1 – 1 Feb (Wed)</i>	1.1 Simple Linear Inequalities	TB (2A) p.6 Ex 1.1 Level 1: Q1, Q2, Level 2: Q4b Level 3: Q6	WA1: Alternative Assessment Topic: Chapters 11 & 12 Data Analysis Week 5: Start of Preparation Due: Week 8
	1.2 Linear Inequalities in One Variable	TB (2A) p.16, Ex 1.2 Level 1: Q2, Q3c, 3e, 3g, 3h, Q4b, 4c, 4f, Level 2: Q5a, 5d, 5g, Q6a, Q7a, Q8, Q12 Level 3: Q14, Q16	

Week 5 [30 Jan – 3 Feb] <i>HBL #1 – 1 Feb (Wed)</i>	Chapter 2 Linear Equations in Two Variables		
	2.1 Graphs of Linear Equations in Two Variables ($ax + by = c$)	TB (2A) p.27, Ex 2.1 Level 1: Q1, Q2 Level 2: Q5	
Week 6 [6 Feb – 10 Feb]	2.2 Solving Simultaneous Linear Equations by the Graphical Method	TB (2A) p.35, Ex 2.2 Level 1: Q1, Q2d, Q3d Level 2: Q5 Level 3: Q6	
	2.3 Solving Simultaneous Linear Equations by Algebraic Method	TB (2A) p.46, Ex 2.3 Using Elimination Method: Q2a, 2d, Q3f, Q4c Using Substitution Method: Q1a, 1f, Q4a, Q5c	
	2.4 Applications of Simultaneous Equations	TB (2A) p.53, Ex 2.4 Level 1: Q3, Q4 Level 2: Q6, Q9, Q13 Level 3: Q15	
Week 7 [13 Feb – 17 Feb] <i>HBL #2 – 15 Feb (Wed)</i>	Chapter 3 Expansion and Factorisation of Algebraic Expressions		
	3.1 Quadratic Expressions	TB (2A) p.67, Ex 3.1 Level 1: Q1a, 1c, Q2a, 2c, Q3b, 3d Level 2: Q4d, Q5 Level 3: Q7, Q8	
Week 8 [20 Feb – 24 Feb]	3.2 Expansion of the Product of Algebraic Expressions	TB (2A) p.75, Ex 3.2 Level 1: Q1d, Q2d, Q4d Level 2: Q5b, Q6d, Q7a, 7d, Q10 Level 3: Q13	
	3.3 Expansion Using Special Products of Algebraic Expressions	TB (2A) p.80, Ex 3.3 Level 1: Q1c, 1f, Q2c, 2e, Q3b, 3e Level 2: Q4a, 4d, Q5a, 5e, 5g, Q9 Level 3: Q12	WA1: Alternative Assessment Topic: Chapters 11 & 12 Data Analysis Week 8: Submission
	3.4 Factorisation of $ax^2 + bx + c$	TB (2A) p.93, Ex 3.4 Level 1: Q1b, 1c, 1g, 1h, Q2c Level 2: Q4a, Q5c, Q7b, Q8 Level 3: Q10, Q13, Q15	
Week 9 [27 Feb – 3 Mar] <i>HBL #3 – 1 Mar (Wed)</i>	3.5 Factorisation Using Special Products of Algebraic Expressions	TB (2A) p.98, Ex 3.5 Level 1: Q1a, 1d, Q2b, 2e, Q4a. 4f Level 2: Q6a, 6b, 6h Level 3: Q13a	

	3.6 Factorisation by Grouping Terms	TB (2A) p.101, Ex 3.6 Level 1: Q1a, 1c, 1e, 1j Level 2: Q2a, 2d, 2h Level 3: Q3	
Week 10 [6 Mar – 10 Mar]	Chapter 4 Algebraic Fractions and Formulae		
	4.1 Simplifying Simple Algebraic Fractions	TB (2A) p.108, Ex 4.1 Level 1: Q1a - 1h Level 2: Q2d, 2f, Q3c Level 3: Q5	
	4.2 Multiplication and Division of Algebraic Fractions	TB (2A) p.111, Ex 4.2 Level 1: Q1d, 1h, Q2c, 2f Level 2: Q3a, 3d, Q4d Level 3: Q7	

TERM 2 [20 Mar – 26 May]

Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Weighted Assessment
Week 1 [20 Mar – 24 Mar] <i>HBL #4 – 22 Mar (Wed)</i>	Chapter 4 Algebraic Fractions and Formulae		
	4.3 Addition and Subtraction of Algebraic Fractions	TB (2A) p.115, Ex 4.3 Level 1: Q1a, 1g, 1h, Q2b, 2g, 2h, Q3d, 3g Level 2: Q4a, 4c, 4g Level 3: Q6a	
	4.4 Algebraic Formulae	TB (2A) p.121, Ex 4.4 Level 1: Q1, Q2, Q4 Level 2: Q7d, 7e, 7g, 7h, Q10 Level 3: Q13	
Week 2 [27 Mar – 31 Mar]	Chapter 5 Quadratic Functions, Graphs and Equations		
	5.1 Graphs of Quadratic Functions	TB (2A) p.140, Ex 5.1 Level 1: Q2 Level 2: Q4, Q5 Level 3: Q8	
	5.2 Solving Quadratic Equations by Factorisation	TB (2A) p.148, Ex 5.2 Level 1: Q1, Q2c, Q3a Level 2: Q4c, 4f, Q5b, 5f, Q6 Level 3: Q13, Q14, Q16	
Week 3 [3 Apr – 7 Apr] <i>HBL #5 – 5 Apr (Wed)</i> <i>Good Friday 7 Apr (Fri)</i>	5.3 Applications of Quadratic Equations in Real-world Contexts	TB (2A) p.152, Ex 5.3 Level 1: Q2 Level 2: Q6, Q8 Level 3: Q15, Q18*	
Week 4 [10 Apr – 14 Apr]	Chapter 6 Proportion		
	6.1 Direct Proportion	TB (2A) p.170, Ex 6.1 Level 1: Q1a, 1b, Q2, Q6 Level 2: Q8, Q15, Q16 Level 3: Q19, Q21, Q22	
Week 5 [17 Apr – 21 Apr] <i>HBL #6 – 19 Apr (Wed)</i>	6.2 Inverse Proportion	TB (2A) p.183, Ex 6.2 Level 1: Q1a, 1b, Q2, Q4, Q5 Level 2: Q9, Q11, Q12, Q14 Level 3: Q17, Q20	

<p>Week 6 [24 Apr – 28 Apr]</p> <p><i>Hari Raya Puasa 24 Apr (Mon)</i></p>	Chapter 7 Congruence and Similarity		
<p>Week 7 [1 May – 5 May]</p> <p><i>Labour Day 1 May (Mon)</i></p> <p><i>HBL #7 – 3 May (Wed)</i></p>	7.1 Congruence	TB (2A) p.200, Ex 7.1 Level 1: Q1 Level 2: Q3, Q6, Q7 Level 3: Q8, Q10	
<p>Week 8 [8 May – 12 May]</p>	Weighted Assessment 2 + Error Analysis		WA2
<p>Week 9 [15 May – 19 May]</p> <p><i>HBL #8 – 17 May (Wed)</i></p>	7.2 Similarity	TB (2A) p.213, Ex 7.2 Level 1: Q5 Level 2: Q6, Q7c, Q8 Level 3: Q12, Q15	
<p>Week 10 [22 May – 26 May]</p>	7.3 Applications of Similarity	TB (2A) p., Ex 7.3 Level 1: Q1, Q2, Q3, Q5 Level 2: Q10, Q12, Q14, Q17 Level 3: Q21	

The subject overview is tentative and is subject to changes.