Peicai Secondary School Subject Overview for Semester 1 2023 Additional Mathematics | Secondary 4 | Express

Term 1 (3 January – 10 March)					
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 20/1 – CNY Celebration	 Chapter 12: Differentiation 12.1 The Derivative and its Basic Rules 12.2 The Chain Rule 	Ex 12.1Ex 12.2			
Week 4 23/1 – 24/1 CNY	 Chapter 12: Differentiation 12.3 The Product Rule 12.4 The Quotient Rule 	 Ex 12.3 Ex 12.4 TYS 			
Week 5 1/2 - HBL	 Chapter 13: Tangents, Normals and Rates of Change 13.1 Equations of Tangents and Normals 13.2 Increasing and Decreasing Functions 	Ex 13.1Ex 13.2			
Week 6	 Chapter 13: Tangents, Normals and Rates of Change 13.3 Rates of Change 13.4 Connected Rates of Change 	 Ex 13.3 Ex 13.4 TYS 			
Week 7	 Chapter 14: Maxima and Minima 14.1 Nature of Stationary Points 14.2 Maxima and Minima Problems 	 Ex 14.1 Ex 14.2 TYS 			
Week 8	Revision for WA1	 TYS Past Year PCSS WA Papers Other school Exam Papers 			
Week 9	Error Analysis for WA1	 TYS Past Year PCSS WA Papers 	WA1 2 hours 80 marks		
Week 10	 Chapter 15: Differentiation of Trigonometric, Exponential and Logarithmic Functions 15.1 Derivatives of Trigonometric Functions 	Ex 15.1Ex 15.2			

 15.2 Derivatives of Exponential Functions 	

Term 2 (20 March – 26 May)					
Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Weighted Assessment		
Week 1 22/3 – HBL	 Chapter 15: Differentiation of Trigonometric, Exponential and Logarithmic Functions 15.3 Derivatives of Logarithmic Functions 	• Ex 15.3			
Week 2	 Chapter 16: Integration 16.1 Indefinite Integrals 16.2 Integration of Trigonometric Functions 16.3 Integration of Exponential Functions, ¹/_x and ¹/_{ax + b}* 	 Ex 16.1 Ex 16.2 Ex 16.3 TYS 			
Week 3 5/4 – HBL 7/4 – Good Friday	 Chapter 17: Applications of Integration 17.1 Definite Integrals 17.2 Area between a curve and an axis 	 Ex 17.1 Ex 17.2 			
Week 4	Chapter 17: Applications of Integration • 17.3 Area between a curve and a line	• Ex 17.3			
Week 5	Chapter 18: Kinematics 18.1 Applications of Differentiation in Kinematics 	Ex 18.1TYS			
Week 6 24/4 – Hari Raya Puasa in Lieu	Chapter 18: Kinematics 18.2 Applications of Integration in Kinematics 	Ex 18.2TYS			
Week 7	Revision for WA2	 TYS Other School Exam Papers 			
Week 8	Error Analysis for WA2	• TYS	WA2 2 hours 80 marks		
Week 9 17/5 - HBL	Chapter 19: Plane Geometry 19.1 Triangular Theorems 	• Ex 19.1			
Week 10	 Chapter 19: Plane Geometry 19.2 Quadrilateral Theorems 19.3 Circle Theorems 	 Ex 19.2 Ex 19.3 TYS 			

The subject overview is tentative and is subject to changes.