

**Secondary 4 / 5NA WA 1
Topics / Skills tested**

			Express	Normal Academic	Normal Technical
No	Subject		Topics / Skills	Topics / Skills	Topics / Skills
1	English Language	Written Paper	Paper 1: Free Writing	Paper 1: Free Writing	Paper 1: Continuous Writing
2	Malay Language	Written Paper	Paper 2: Subjective Comprehension	Paper 2: Subjective Comprehension	Paper 2: Language and Comprehension
3	Higher Chinese Language	Written Paper	Paper 2: Subjective Comprehension		
4	Chinese Language	Written Paper	Paper 2: Subjective Comprehension	Paper 2: Subjective Comprehension	Paper 2: Language and Comprehension
5	Tamil Language	Written Paper	Paper 2: Subjective Comprehension	Paper 2: Subjective Comprehension	Paper 2: Language and Comprehension
6a	Mathematics - Sec 4	Written Paper	(Sec 3) Chapter 5.1 to 5.4: Graphs of Functions and Graphical Solutions (Sec 4) Chapter 1: Sets (Sec 4) Chapter 2.1: Probability of Single Events	(Sec 3) Chapter 8: Similarity and Congruency (Sec 4) Chapter 1: Further Trigonometry	(Sec 3) Chapter 3: Algebraic Expansion and Fractions (Sec 4) Chapter 1: Fractional Equations (Sec 4) Chapter 2.1: Graphs of Quadratic Functions Arithmetic
6b	Mathematics - Sec 5NA	Written Paper	(Sec 5) Chapter 1: Graphs of Quadratic Functions and Linear Inequalities Algebra		
7a	Additional Mathematics - Sec 4	Written Paper	Chapter 9: Applications of Straight Line Graphs Chapter 11.1: Simple Trigonometric Identities	Chapter 10.2: Graphs of Trigonometric Functions Chapter 11: Trigonometric Identities and Equations Chapter 12.1: The Derivative and its Basic Rules	

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7b	Additional Mathematics - Sec 5 NA	Written Paper	Chapter 5: Exponential and Logarithmic Functions Chapter 9: Applications of Straight Line Graphs		
8	Social Studies	Written Paper	Chp 8: Globalisation SBQ Skills	Chp 8: Globalisation SBQ Skills	
9	Humanities - Geography	Written Paper	Impacts of Climate Change Climate Action: Adaptation and Mitigation	Impacts of Climate Change Climate Action: Adaptation and Mitigation	
10a	Humanities - History - Sec 4	Written Paper	Chapter 4: Outbreak of WW2 in Europe Chapter 5: Outbreak of WW2 in Asia Pacific SBQ Skill SEQ Skill	Chapter 4: Outbreak of WW2 in Europe Chapter 5: Outbreak of WW2 in Asia Pacific SBQ Skill SEQ Skill	
10b	Humanities - History - Sec 5NA	Written Paper	SEQs: Chapters 1-2		
11	Humanities - Literature	Written Paper	Section A: Set Text (Kindred)	Section A: Set Text (How we live now)	
12	Physics	Written Paper	C5 Turning Effects of Forces C7 Energy		
13	Chemistry	Written Paper	Stoichiometry & Mole concept Ammonia		
14	Biology	Written Paper	Infectious Diseases in Humans Homeostasis, Co-ordination and Response in Humans Nutrition in Plants		

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15a	Science - Biology - Sec 4	Written Paper	Infectious Diseases in Humans Nutrition and Transport in plants	Transport in Humans Respiration in Humans Nutrition in plants	
15b	Science - Biology - Sec 5 NA	Written Paper	Infectious Diseases in Humans Nutrition and Transport in plants		
16a	Science - Physics - Sec 4	Written Paper	Chapter 2 Kinematics Chapter 3 Forces and Pressure	Chapter 3 Forces and Pressure Chapter 4 Dynamics	
16b	Science - Physics - Sec 5 NA	Written Paper	Waves, EM waves and Light (reflection and refraction)		
17a	Science - Chemistry - Sec 4	Written Paper	Acids & Bases	Acids & Bases	
17b	Science - Chemistry - Sec 5 NA	Written Paper	Speed of Reaction Chemical Energetics		
18	Electronics	Written Paper	Chapter 10 - Introduction to Digital Electronics Chapter 11 - Basic Logic Gates Chapter 12 - Combinational Logic Circuits		
19	Art	Written Paper	Coursework on Research & Exploration	Coursework on Research & Exploration	
20	NFS	Written Paper	- Chapter 7: Diet & Health Problems - Chapter 8: Diet & Meal Planning - Chapter 11: Preparation and Cooking of Food (Dairy products, Meat, Seafood) - Chapter 13: Reactions in Food during Preparation and Cooking	- Chapt 14: Sensory Evaluation - Chapt 9: Meal Analysis - Chapt 11: Preparation and Cooking of Food (Meat, Poultry, Seafood)	- Chapters 1 to 6: Proteins, Carbohydrates, Fats, Vitamins, Minerals, Water & Dietary Fibre

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21	D&T	Written Paper	Design Communications	- Design Communications - Mechanisms - Electronics	
22	Computer Application	Written Paper			(Sec 4) DOP 5: Mail Merge (Sec 4) SST 7: Lookup Function and Filtering Data (Sec 4) SST 8: Data Validation (Sec 3) Spreadsheets
23	EBS	Written Paper			Chapter 4: 4Ps
24	Mobile Robotics	Written Paper			Chapter 1: Mobile Robots Chapter 2: Basic Electricity Chapter 3: Basic Electronics Chapter 4: Digital Electronics Chapter 8: Simple Robots
25	NT Science	Written Paper			Topic 7: Food Safety Topic 8: Staying Healthy