

**Sec 4 / 5NA WA 2
Topics / Skills tested**

			Express	Normal Academic	Normal Technical
	Subject	Assessment	Topics / Skills	Topics / Skills	Topics / Skills
1	English Language	Written Paper	Non-narrative Comprehension	Non-narrative Comprehension	Lang Use & Comprehension
2	Malay Language	Oral Test/Written Paper	Oral Test	Functional Writing	Functional Writing
3	Higher Chinese Language	Oral Test/Written Paper	Oral Test		
4	Chinese Language	Oral Test/Written Paper	Oral Test	Functional Writing	Functional Writing
5	Tamil Language	Oral Test/Written Paper	Oral Test	Functional Writing	Functional Writing
6a	Mathematics - Sec 4	Written Paper	Chapter 2: Probability of Combined Events Chapter 3: Statistical Data Analysis Chapter 4: Matrices	Chapter 2: Arc Length, Sector Area and Radian Measure Chapter 3: Probability Chapter 4: Cumulative Frequency	Chapter 3: Quadratic Equations Chapter 4: Trigonometric Numbers (TYS)
6b	Mathematics - Sec 5NA	Written Paper	Chapter 2 : Congruence and Similarity Tests Chapter 3 : Area and Volume of Similar Figures and Solids Chapter 4 : Sets Chapter 5 : Matrices		
7a	Additional Mathematics - Sec 4	Written Paper	Chapter 11: Trigonometric Identities and Equations Chapter 12: Differentiation Chapter 13: Tangents, Normal and Rates of Change	Chapter 12: Differentiation Chapter 13: Tangents, Normal and Rates of Change Chapter 14: Maxima and Minima	

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7b	Additional Mathematics - Sec 5NA	Written Paper	Chapter 6: Binomial Theorem Chapter 12: Differentiation Chapter 13.1: Equations of Tangents and Normals Chapter 15: Differentiation of Trigonometric, Exponential and Logarithmic Functions Chapter 16: Integration		
8	Social Studies	Written Paper	Chapter 9: Responding to the economic impacts of globalisation SBQ & SRQ Skills	Chapter 9: Responding to the economic impacts of globalisation SBQ & SRQ Skills	
9a	Humanities - Geography	Written Paper	Cluster 2: Climate - Topic 3 Climate Action Cluster : Tourism 1.1 - 1.4	Cluster 2: Climate - Topic 3 - Climate Action	
9b	Humanities - Geography	Written Paper	Tourism Cluster: Topic 1 - Tourism Activity Topic 2 - 2.1 Trends in tourism, 2.2 Economic impacts of tourism		
10	Humanities - Literature	Written Paper	Set Text (Kindred)	Unseen Poetry	

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11	Humanities - History	Written Paper	Sec 4 Chapter 6: End of WW2 in Europe and Asia Pacific Chapter 7: Origins and Development of the Cold War in Europe SBQ Skills SEQ Skills Sec 5 Chapter 2: Hitler's Germany Chapter 3: Militarist Japan 2x SBQs 1x SEQ	Chapter 4: Outbreak of WW2 in Europe Chapter 6: End of WW2 in Europe and Asia Pacific SBQ Skills SEQ Skill	
12	Physics	Written Paper	1. Energy 2. Static Electricity 3. Current of Electricity 4. DC Circuits		
13	Chemistry	Written Paper	1. Chemical Energetics 2. Speed of Reaction		
14	Biology	Written Paper	Transport in Plants Organisms and their Environment Molecular Genetics Inheritance		
15a	Science - Biology	Written Paper	Organisms and their environment Molecular Genetics Inheritance	Respiration in Humans Nutrition and Transport in Plants	

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16a	Science - Physics	Written Paper	1. Dynamics 2. Principle of Moments 3. Principle of Conservation of Energy	1. Energy 2. Electric Charges and Current Electricity 3. D.C. Circuits	
16b	Science - Physics	Written Paper	Light and Kinematics		
17a	Science - Chemistry	Written Paper	1. Metals 2. Speed of Reaction	1. Metals 2. Chemical Calculation	
17b	Science - Chemistry	Written Paper	Redox Chemical Calculations Atomic Structure Chemical Bonding		
18	Electronics	Written Paper	Ch 9 Operational Amplifier Ch 13 SR-Latch Ch 14 Voltage Comparator, 555 Timer and Counter		
19	Art	Coursework / Project	Sec 4E and Sec 5NA: Coursework - Exploration & Manipulation Technique Preps	Sec 4NA :Coursework- Colour Scheme+ Layout + Artist's Statement	
20	NFS	Written Paper	Sec 4E and Sec 5NA 1. Proteins 2. Carbohydrates 3. Fats 4. Vitamins 5. Minerals 6. Water and dietary fibre 7. Meal Analysis 8. Sustainable food consumption 9. Methods of cooking	Chapter 11: Preparation & Cooking of Food	Chapters 7: Diet & Health Problems Chapters 8: Diet & Meal Planning Chapters 9: Meal Analysis

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21	D&T	Written Paper	1. Design Communication: Working Drawings 2. Basic Electricity and Electronics 3. Structures: Reinforcing Structures 4. Structures: Properties of Materials	1. Design Communication 2. Mechanism 3. Electronics	
22	Computer Application	Written Paper			MEL: Theory - Inkscape AGM: Practical - Game making
23	EBS	Written Paper			Ch 1 - Intro to Business Ch 2 - Businesses in the three Industries Ch 4 - The Marketing Mix
24	Mobile Robotics	Written Paper			Chapter 2 Basic Electricity Chapter 3 Basic Electronics Chapter 4 Digital Electronics Chapter 5 Design Chapter 6 Input and Output Devices Chapter 7 Simple Mechanisms
25	NT Science	Written Paper			Topic 9: Digestion Topic 10: Breathing Topic 11: Blood circulation