

Sec 3 End-Of-Year Examination Topics

		Express	Normal Academic	Normal Technical
	Subject	Topics	Topics	Topics
1	English Language	Paper 1: Editing, Situational Writing, Free Writing Paper 2: Visual Text, Reading Comprehension & Summary Writing Paper 3: Listening Comprehension	Paper 1: Editing, Situational Writing, Free Writing Paper 2: Visual Text, Reading Comprehension & Summary Writing Paper 3: Listening Comprehension	Paper 1: Editing, Situational Writing, Free Writing Paper 2: Visual Text, Reading Comprehension & Summary Writing Paper 3: Listening Comprehension
3	Malay Language	Paper 1: Functional Writing & Essay Paper 2: Language Application & Comprehension	Paper 1: Functional Writing & Essay Paper 2: Language Application & Comprehension	Paper 1: Functional Writing & Essay Paper 2: Language Application & Comprehension
4	Higher Chinese Language	Paper 1: Functional Writing & Essay Paper 2: Language Application & Comprehension		
5	Chinese Language	Paper 1: Functional Writing & Essay Paper 2: Language Application & Comprehension	Paper 1: Functional Writing & Essay Paper 2: Language Application & Comprehension	Paper 1: Functional Writing & Essay Paper 2: Language Application & Comprehension
7	Tamil Language	P1: Functional Writing & Essay P2: Language Application & Comprehension	P1: Functional Writing & Essay P2: Language Application & Comprehension	

		Express	Normal Academic	Normal Technical
	Subject	Topics	Topics	Topics
8	Mathematics	Selected Topics from Secondary 1 & 2 Secondary 3 Chapter 1: Quadratic and Fractional Equations Chapter 2: Simultaneous Linear Inequalities Chapter 3 Indices and Standard Form Chapter 4: Coordinate Geometry Chapter 5: Graphs of Functions and Graphical Solution Chapter 6: Further Trigonometry Chapter 7: Applications of Trigonometry Chapter 8: Arc Length, Sector Area and Radian Measure Chapter 9: Congruence and Similarity Tests Chapter 10: Area and Volume of Similar Figures and Solids	Selected Topics from Secondary 1 & 2 Secondary 3 Chapter 1: Algebraic Expression and Formulae Chapter 2: Quadratic Equations and Equations Chapter 3: Indices and Standard Form Chapter 4: Coordinate Geometry Chapter 5: Graphs of Functions and Graphical Solution Chapter 6: Trigonometry Chapter 7: Further Trigonometry Chapter 8: Congruence and Similarity	Selected Topics from Secondary 1 & 2 Secondary 3 Chapter 1: Indices and Standard Form Chapter 2: Map Scales Chapter 3: Algebraic Expansion, Fractions, and Expression for the nth Term of a Number Sequence Chapter 4: Factorisation and Formulas Chapter 5: Arc Lengths and Sector Areas Chapter 6: Pyramids, Cones and Spheres Chapter 7: Cumulative Frequency Chapter 8: Graphs of Linear Equations Chapter 9: Simultaneous Linear Equations
9	Additional Mathematics	Chapter 1: Quadratic Functions Chapter 2: Equations and Inequalities Chapter 3: Surds Chapter 4: Polynomials and Partial Fractions Chapter 5: Exponential and Logarithmic Functions Chapter 6: Binomial Theorem Chapter 7: Coordinate Geometry Chapter 8: Circles Chapter 9: Application of Straight Line Graphs Chapter 10: Trigonometric Functions	Chapter 1: Quadratic Functions Chapter 2: Equations and Inequalities Chapter 3: Surds Chapter 4: Polynomials and Partial Fractions Chapter 7: Coordinate Geometry Chapter 8: Circles Chapter 10: Trigonometric Functions	

		Express	Normal Academic	Normal Technical
	Subject	Topics	Topics	Topics
10	Social Studies	Chapter 1: Citizenship Chapter 2: Functions and Roles of Government Chapter 3: How to decide what is good for Society? Chapter 4: How can we work together for the Good of Society? Chapter 5: Factors that contributes to a Diverse Society Chapter 6: Experiences & Effects of living in a Diverse Society	Chapter 1: Citizenship Chapter 2: Functions and Roles of Government Chapter 3: How to decide what is good for Society? Chapter 4: How can we work together for the Good of Society? Chapter 5: Factors that contributes to a Diverse Society Chapter 6: Experiences & Effects of living in a Diverse Society	
11	Humanities - Geography	Cluster: Everyday life Cluster: Climate (1.1 - 2.2) 1.1 weather & climate 1.2 variations in air temp 1.3 variations in air pressure 1.4 Variation in wind direction 2.1 Natural variability of climate (reading and interpreting graphs) 2.2 Anthropogenic factors	Cluster: Everyday life Cluster: Climate (1.1 - 2.2) 1.1 weather & climate 1.2 variations in air temp 1.3 variations in air pressure 1.4 Variation in wind direction 2.1 Natural variability of climate (reading and interpreting graphs) 2.2 Anthropogenic factors	
12	Humanities - History	Chapter 1: Paris Peace Conference and the League of Nations in the 1920s Chapter 2: Case Study of Nazi Germany Chapter 4: Outbreak of WW2 in Europe Chapter 5: Outbreak of WW2 in Asia-Pacific	Chapter 1: Paris Peace Conference and the League of Nations in the 1920s Chapter 2: Case Study of Nazi Germany Chapter 4: Outbreak of WW2 in Europe Chapter 5: Outbreak of WW2 in Asia-Pacific	

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	Subject	Topics	Topics	Topics
13	Humanities - Literature	<p>Prose & Unseen Poetry.</p> <p>Prose will be based on at least one of the following stories:</p> <p>1) Live! At the Wet Market by Anitta Thanabalan</p> <p>2) Letters by Jessica Tan</p> <p>3) The Thing by Yeoh Jo Ann</p> <p>4) The Missing Clock by Yolanda Yu Miaomiao</p> <p>5) Close to Home by Jinny Koh</p>		
14	Physics	<p>Chapter 1. Physical Quantities, Units and Measurements</p> <p>Chapter 2. Kinematics</p> <p>Chapter 3. Dynamics I - Mass and Weight</p> <p>Chapter 4. Dynamics II - Forces</p> <p>Chapter 5. Turning Effect of Forces</p> <p>Chapter 6. Pressure</p> <p>Chapter 7. Energy</p> <p>Chapter 8. Kinetic Particle Model of Matter</p> <p>Chapter 9. Thermal Processes</p> <p>Chapter 10. Thermal Properties of Matter</p> <p>Chapter 11. General Wave Properties I - Introduction</p> <p>Chapter 12. General Wave Properties II - Sound</p> <p>Chapter 13. Electromagnetic Waves</p>		

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	Subject	Topics	Topics	Topics
15	Chemistry	1. Kinetic Particle Theory 2. Atomic Structure 3. Chemical Bonding & Structure and Properties of Materials 4. Chemical Formulae and Equations 5. Acids and Bases 6. Salts 7. Redox 8. Periodic Table 9. Reactivity Series 10. Experimental Chemistry 11. Purification and Separation Techniques		
16	Biology	1. Cell Structure and Organisation 2. Movement of Substances 3. Biological Molecules (Nutrients and Enzymes) 4. Nutrition in Humans 5. Transport in Humans 6. Respiration in Humans 7. Excretion in Humans 8. Infectious Diseases in Humans		
17	Science - Biology	1. Cell Structure and Organisation 2. Movement of Substances 3. Biological Molecules (Nutrients and Enzymes) 4. Nutrition in Humans 5. Transport in Humans 6. Respiration in Humans	1. Cell Structure and Organisation 2. Movement of Substances 3. Biological Molecules (Nutrients and Enzymes) 4. Nutrition in Humans 5. Transport in Humans	

		Express	Normal Academic	Normal Technical
	Subject	Topics	Topics	Topics
18	Science - Physics	Chapter 1. Physical Quantities, Units and Measurements Chapter 2. Kinematics Chapter 3. Force and Pressure Chapter 4. Dynamics Chapter 5. Turning Effect of Forces Chapter 6. Energy Chapter 7. Kinetic Particle Model of Matter Chapter 8. Thermal Processes Chapter 9. General Wave Properties Chapter 11. Electromagnetic Spectrum	1. Physical Quantities, Units and Measurements 2. Kinematics 3. Force and Pressure 4. Dynamics 5. Energy 6. Kinetic Particle Model of Matter 7. Thermal Processes 8. General Wave Properties (I)	
19	Science - Chemistry	1. Experimental Chemistry 2. Purification and Separation Techniques 3. Kinetic Particle Theory 4. Atomic Structure 5. Chemical Bonding & Structure and Properties of Materials 6. Chemical Formulae and Writing of Balanced Chemical Equations 7. Acids and Bases	1. Experimental Chemistry 2. Purification and Separation Techniques 3. Kinetic Particle Theory 4. Atomic Structure 5. Chemical Bonding & Structure and Properties of Materials 6. Chemical Formulae and Writing of Balanced Chemical Equations 7. Acids and Bases	
21	Art	1. Visual Analysis (E.O.A & P.O.D) 2. Exploratory Sketch	1. Visual Analysis (E.O.A & P.O.D) 2. Exploratory Sketch	

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	Subject	Topics	Topics	Topics
22	NFS	Chapter 1: Proteins Chapter 2: Carbohydrates Chapter 3: Fats Chpt 4: Vitamins Chpt 5: Minerals Chpt 6: Water & Dietary Fibre Chpt 7: Diet & Health Problems Chpt 8: Diet & Meal Planning Chpt 9: Meal Analysis Chpt 10 Sustainable food Consumption Chpt 12: Method of Cooking Chpt 13: Reactions in Food during Preparation & Cooking	Chpt 1: Proteins Chpt 2: Carbohydrates Chpt 3: Fats Chpt 4: Vitamins Chpt 5: Minerals Chpt 6: Water & Dietary Fibre Chpt 8: Diet & Meal Planning Chpt 11: Preparation & Cooking of Food Chpt 12: Method of Cooking Chpt 13: Reactions in Food during Preparation & Cooking	
23	D&T	1. Design Communication 2. Structures 3. Mechanisms 4. Electronics	1. Design Communication 2. Mechanisms 3. Electronics	
24	Computer Application			Paper 1: Computer Fundamentals, Media elements, Document Processing, Spreadsheets, Interactive Media Communications, Animation and Game Making Paper 2: Media Elements (Inkscape), Document Processing, Interactive Media Communication Paper 3: Media Elements (Video Editing), Spreadsheets, Animation and Game Making

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	Subject	Topics	Topics	Topics
25	EBS			Chapter 1: Introduction to Business Chapter 2: Business in the Travel & Tourism, Hospitality and Retail Industries Chapter 3: Introduction to Marketing Chapter 4: The Marketing Mix Chapter 6: Customer Service
26	Mobile Robotics			Chapter 1: Mobile Robots Chapter 2: Basic Electricity Chapter 3: Basic Electronics Chapter 4: Digital Electronics Chapter 5: Design Method
27	NT Science			Chapter 1 Energy Chapter 2 Electricity Chapter 3 Wave Chapter 4 Effects of Force Chapter 5 Sources of Food Chapter 6 Food Chemistry