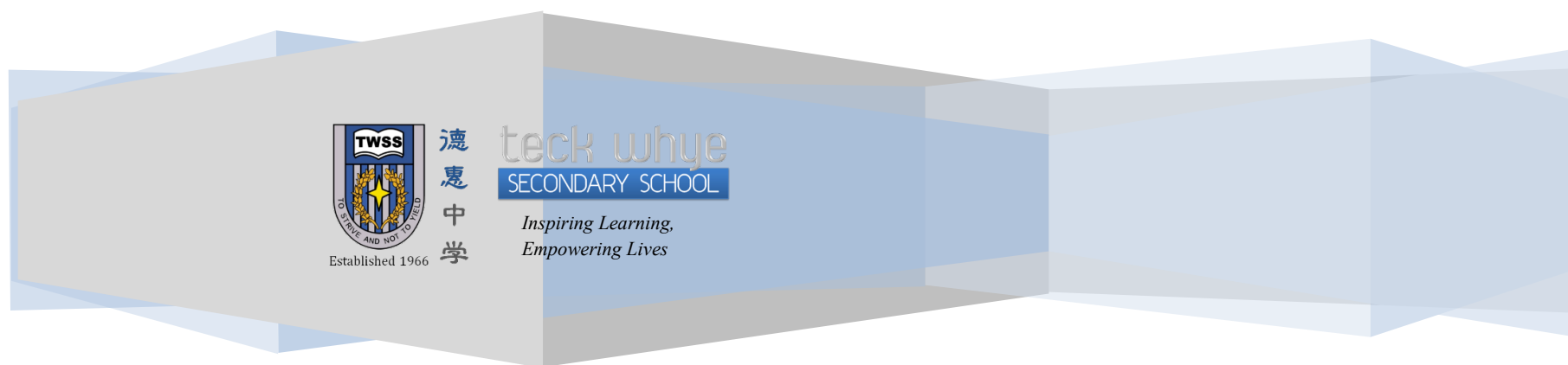


# Information on Subject Option

## For 2022 Secondary Two Express



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## Subject Option Exercise

Offering our students a broad-based subject combination will provide them with a wide range of choices for post-secondary education.

Subjects are allocated based on the following –

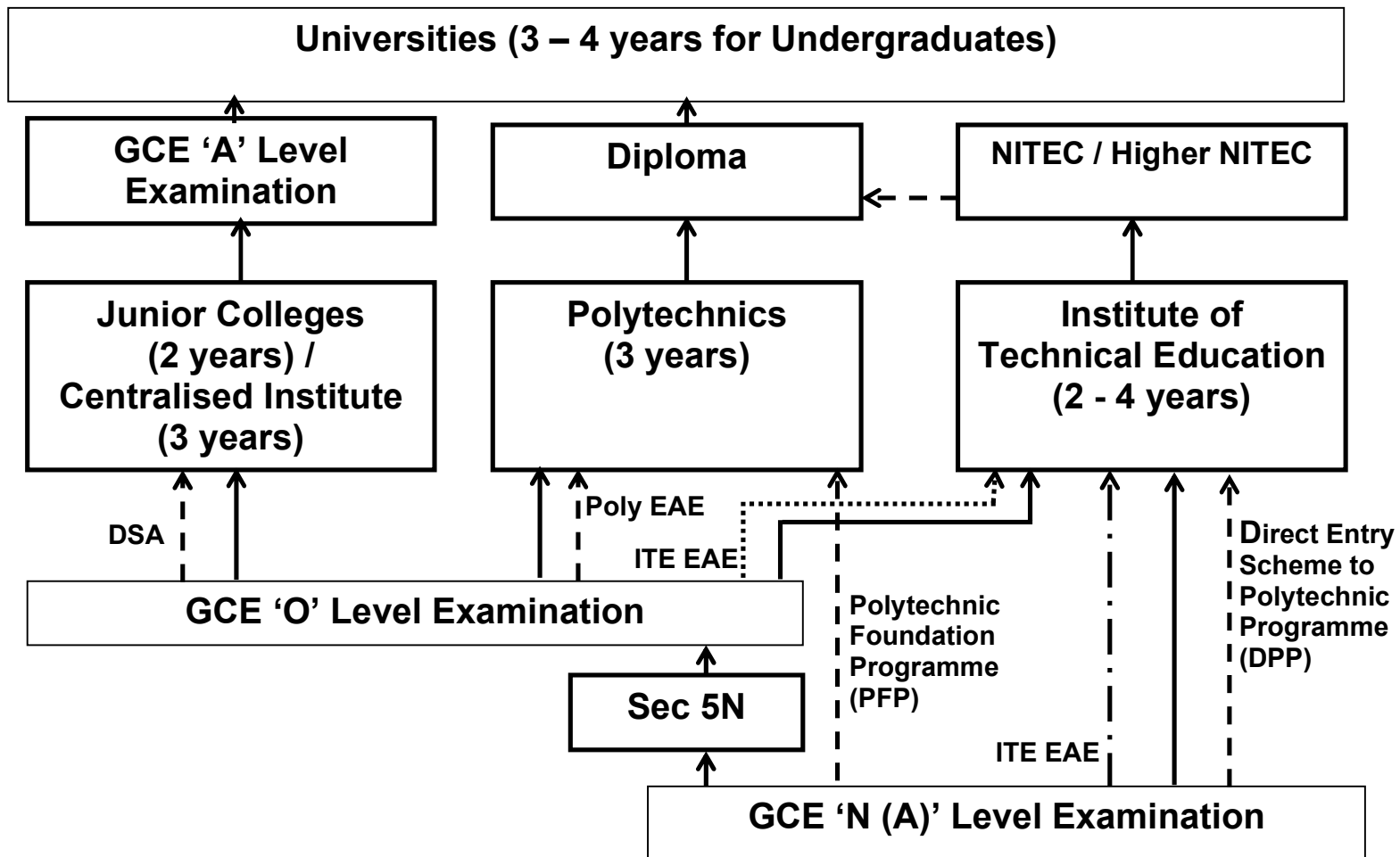
- a. **Merit** (Students' overall academic performance and general subject proficiencies);
- b. **Choice** (As indicated by students during the subject option exercise); and
- c. **Resources** (Availability of teachers and minimum number of students for a subject group).

Overall academic performance refers to the performance of students throughout the year, i.e., WA1, WA2, and SA

WA1 (Term 1)	WA2 (Term 2)	WA3 (Term 3)	SA (Term 4)	TOTAL
15%	15%	15%	55%	100%

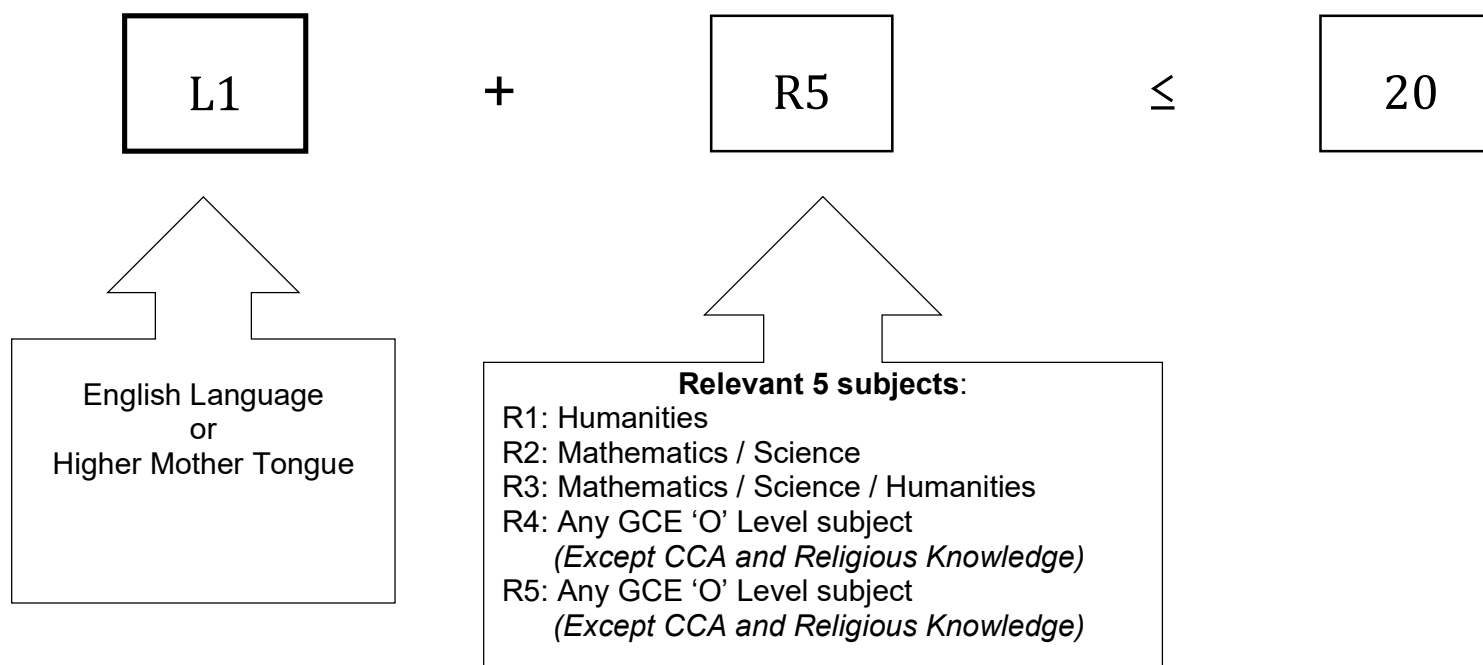
Students are advised to put in consistent effort throughout the year. In the event that students are not offered their first choice, the school will consider the subsequent choices opted by the student. Therefore, it is important that students rank their choices carefully and in consultation with their parent(s) / guardian(s).

## Post-Secondary Education Landscape



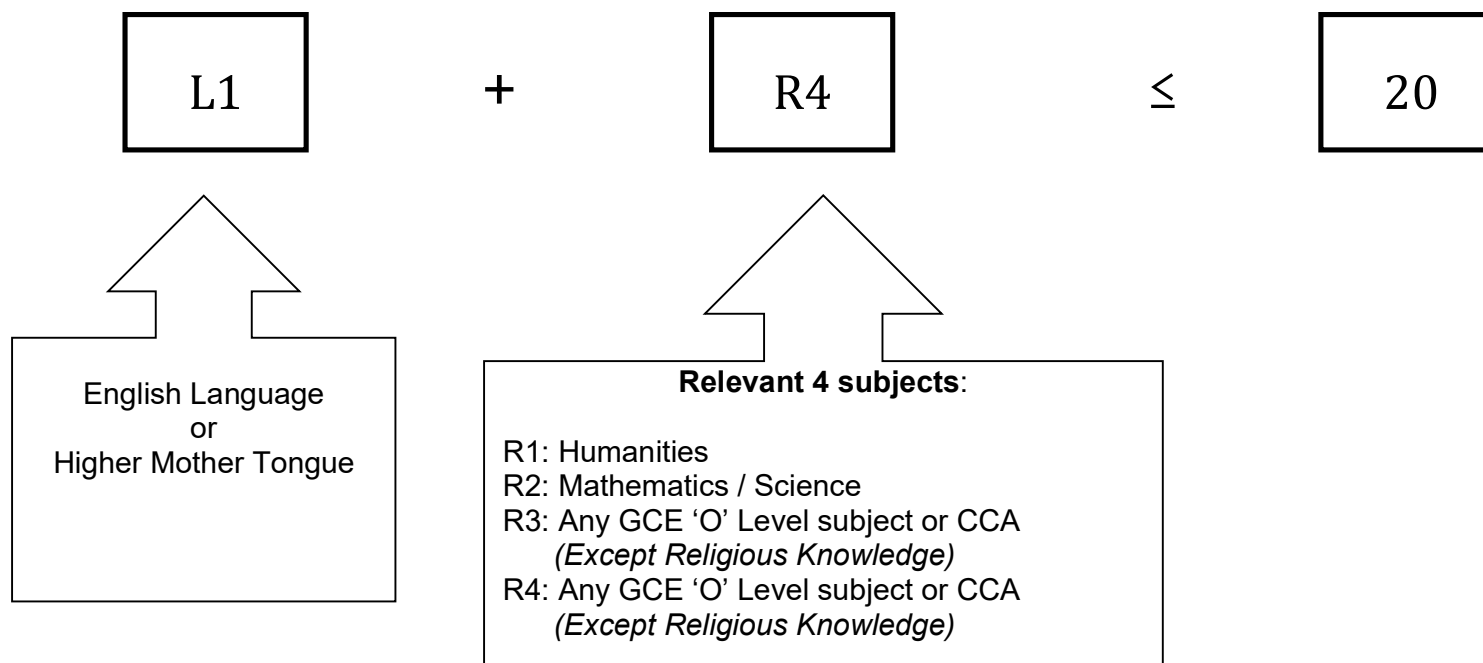
## Admission Criteria to Junior College

The 2-year Pre-University course is offered only in junior colleges. To be eligible for admission to a course in the junior colleges, students need an aggregate score of  $L1R5 \leq 20$ .



## Admission Criteria to Millennia Institute

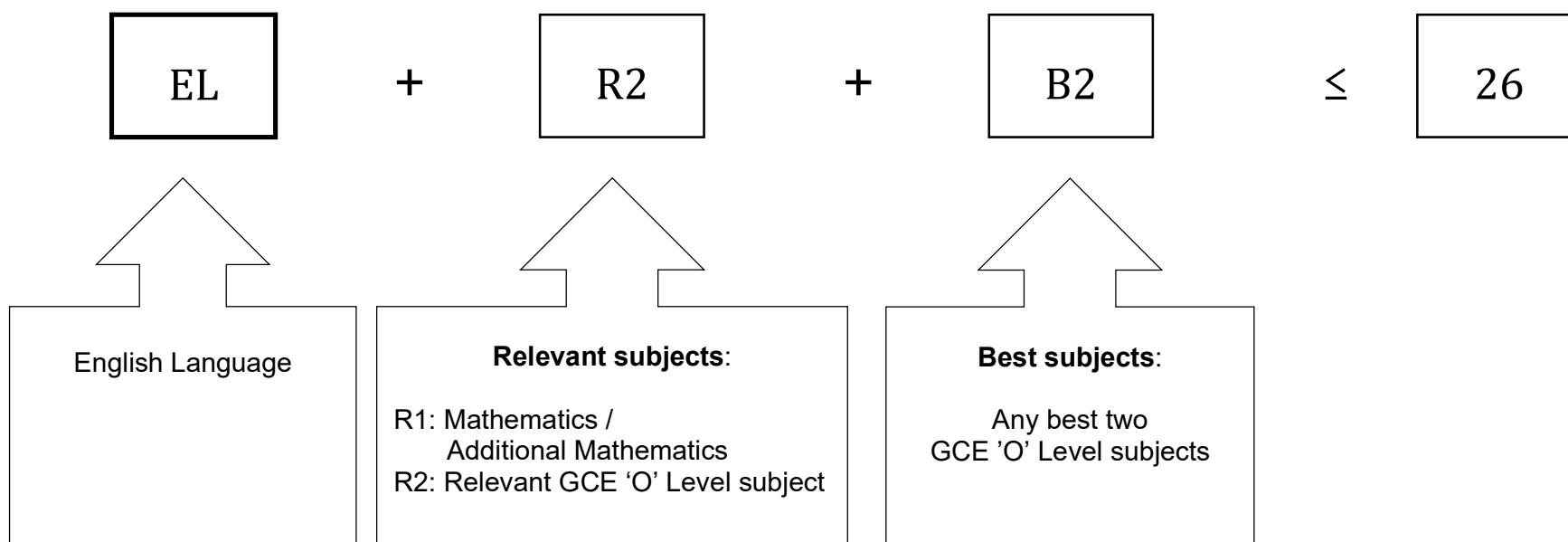
The 3-year Pre-University course is offered in Millennia Institute. To be eligible for admission to a course in Millennia Institute, students need an aggregate score of  $L1R4 \leq 20$ .



## Admission Criteria to Polytechnics

To be eligible for consideration to the various courses in the polytechnics, students must obtain 26 points or better for the net ELR2B2 aggregate score and meet the minimum requirements for the various courses.

Different courses in different polytechnics require different aggregate scores and the scores vary from year to year.



## Timeline for Subject Option Exercise

Term	Activities
1-2	<ul style="list-style-type: none"> <li>• Sec 2 Parent Engagement Session <ul style="list-style-type: none"> <li>✓ Subject Combinations</li> </ul> </li> <li>• Sec 2 Subject Combination Briefing 1 (for students) <ul style="list-style-type: none"> <li>✓ Education and Career Guidance Support</li> <li>✓ Subject-specific Briefing**</li> <li>✓ Issue of Information on Subject Option</li> </ul> </li> <li>• ECG CCE Lessons &amp; Cohort Talks <ul style="list-style-type: none"> <li>✓ Understanding the Post-Secondary Education Landscape</li> <li>✓ Identifying Own Strengths, Interests and Skills</li> <li>✓ Exploring Career Options based on Interests and Strengths</li> <li>✓ Identifying the Influencing Factors on Career Choices</li> <li>✓ Choosing Career Options</li> </ul> </li> </ul>
3	<ul style="list-style-type: none"> <li>• Sec 2 Subject Combination Trial Poll (for students)</li> <li>• ECG CCE Lesson <ul style="list-style-type: none"> <li>✓ Class Talk by ECG Counsellor on Choosing Subject Combinations</li> <li>✓ SLS Lesson on Choosing Subject Combinations (self-directed)</li> <li>✓ 1-1 ECG Counselling with ECG Counsellor (sign-up basis)</li> </ul> </li> </ul>
4	<ul style="list-style-type: none"> <li>• Sec 2 Subject Combination Briefing 2 <ul style="list-style-type: none"> <li>✓ Briefing on Subject Combinations Preference Exercise</li> </ul> </li> <li>• Subject Option Exercise <ul style="list-style-type: none"> <li>✓ Subject Combinations Preference Exercise</li> <li>✓ Results of Subject Option and Class Allocation</li> </ul> </li> </ul>

*\*\* These include new subjects/ electives such as Pure Sciences, Add Math, Humanities, POA, EBS, Art/DT/NFS, Mobile Robotics, etc.*



PURE SCIENCES (EXPRESS)			
Subject/Code	BIOLOGY (6093)	CHEMISTRY (6092)	PHYSICS (6091)
<b>Link to Syllabus</b>	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/6093_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/6093_y23_sy.pdf</a>	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/6092_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/6092_y23_sy.pdf</a>	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/6091_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/6091_y23_sy.pdf</a>
<b>Description</b>	<p>Biology is the study of all life forms. It is concerned with classifying the various forms of organisms, how species come into existence, and the interactions they have with each other and with the environment.</p> <p>Biology provides a good foundation for students wishing to study Biology at Higher 2 (H2) level in junior college.</p>	<p>Chemistry is study of matter at the atomic to macromolecular scale. It focus on (i) the finite life of the world's resources and hence the need for recycling and conservation (ii) economic considerations in the chemical industry (iii) the social, environmental, health and safety issues relating to the chemical industry (iv) the importance of chemicals in industry and in everyday life.</p> <p>Chemistry provides a good foundation for students wishing to study Chemistry at Higher 2 (H2) level in junior college.</p>	<p>Physics is the study of energy, matter, and their interrelationships. It focuses on investigating natural phenomena and then applying patterns, models (including mathematical ones), principles, theories and laws to explain the physical behaviour of the universe. The theories and concepts belong to a branch of physics commonly referred to as classical physics. Modern physics, developed to explain the quantum properties at the atomic and sub-atomic level, is built on knowledge of these classical theories and concepts.</p> <p>Physics provides a good foundation for students wishing to study Physics at Higher 2 (H2) level in junior college.</p>
<b>Outcomes</b>	<p>Pure Sciences enable students to:</p> <ul style="list-style-type: none"> <li>• are relevant to the study and practice of science</li> <li>• useful in everyday life and concern for accuracy and precision.</li> <li>• encourage efficient and safe practice</li> <li>• encourage effective communication.</li> </ul>		

PURE SCIENCES (EXPRESS)			
Subject/Code	BIOLOGY (6093)	CHEMISTRY (6092)	PHYSICS (6091)
	<p>(ii) develop attitudes relevant to science such as</p> <ul style="list-style-type: none"> <li>• concern for accuracy and precision</li> <li>• objectivity</li> <li>• integrity</li> <li>• inquiry</li> <li>• initiative</li> <li>• inventiveness.</li> </ul> <p>The curriculum also promotes awareness in the study and practice of science include co-operative and cumulative activities, and is subject to social, economic, technological, ethical and cultural influences and limitations. Students would be able to understand that the applications of science may be both beneficial and detrimental to the individual, the community and the environment. Students will recognise that science transcends national boundaries and that the language of science, correctly and rigorously applied, is universal and the use of information technology is important for communication, as an aid to experiments and as a tool for the interpretation of experimental and theoretical results.</p>		
Assessment Format	<p><b>Paper 1 (Multiple Choice)</b> - 40 marks (30%) - 1 hour</p> <p><b>Paper 2 (Structured)</b> - 80 marks (50%) - 1 hour 45 minutes</p> <p><b>Paper 3 (Practical)</b> - 40 marks (20%) - 1 hour 55 minutes</p>	<p><b>Paper 1 (Multiple Choice)</b> - 40 marks (30%) - 1 hr</p> <p><b>Paper 2 (Structured)</b> - 80 marks (50%) - 1 hour 45 minutes</p> <p><b>Paper 3 (Practical)</b> - 40 marks (20%) - 1 hour 55 minutes</p>	<p><b>Paper 1 (Multiple Choice)</b> - 40 marks (30%) - 1 hr</p> <p><b>Paper 2 (Structured)</b> - 80 marks (50%) - 1 hour 45 minutes</p> <p><b>Paper 3 (Practical)</b> - 40 marks (20%) - 1 hour 55 minutes</p>

PURE SCIENCES (EXPRESS)			
Subject/Code	BIOLOGY (6093)	CHEMISTRY (6092)	PHYSICS (6091)
<b>Prerequisites</b>	Students should do well in and display an aptitude in Lower Secondary Science.		
<b>Contact</b>	Mr Alwin Njoo, SSD & covering HOD Science E-mail: njoo_kiat_guan_alwin@schools.gov.sg Tel: 6769 1386		

SCIENCES (EXPRESS)		
Subject/Code	SCIENCE (CHEMISTRY, BIOLOGY) (5078)	SCIENCE (PHYSICS, CHEMISTRY) (5076)
Link to Syllabus	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/5078_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/5078_y23_sy.pdf</a>	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/5076_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/5076_y23_sy.pdf</a>
Description	<p>Chemistry is study of matter at the atomic to macromolecular scale. It focus on (i) the finite life of the world's resources and hence the need for recycling and conservation (ii) economic considerations in the chemical industry (iii) the social, environmental, health and safety issues relating to the chemical industry (iv) the importance of chemicals in industry and in everyday life.</p> <p>Biology is the study of all life forms. It is concerned with classifying the various forms of organisms, how species come into existence, and the interactions they have with each other and with the environment.</p>	<p>Physics provides students with a coherent understanding of energy, matter, and their interrelationships. It focuses on investigating natural phenomena and then applying patterns, models (including mathematical ones), principles, theories and laws to explain the physical behaviour of the universe. The theories and concepts presented in this syllabus belong to a branch of physics commonly referred to as classical physics. Modern physics, developed to explain the quantum properties at the atomic and sub-atomic level, is built on knowledge of these classical theories and concepts.</p> <p>Chemistry is study of matter at the atomic to macromolecular scale. It focus on (i) the finite life of the world's resources and hence the need for recycling and conservation (ii) economic considerations in the chemical industry (iii) the social, environmental, health and safety issues relating to the chemical industry (iv) the importance of chemicals in industry and in everyday life.</p>
Outcomes	<p>The aims are:</p> <p>(i) provide, through well-designed studies of experimental and practical science, a worthwhile educational experience for all students, whether or not they go on to study science beyond this level and, in particular, to enable them to acquire sufficient understanding and knowledge to</p>	

SCIENCES (EXPRESS)		
Subject/Code	SCIENCE (CHEMISTRY, BIOLOGY) (5078)	SCIENCE (PHYSICS, CHEMISTRY) (5076)
	<ul style="list-style-type: none"> <li>• become confident citizens in a technological world, able to take or develop an informed interest in matters of scientific importance</li> <li>• recognise the usefulness, and limitations, of scientific method and to appreciate its applicability in other disciplines and in everyday life</li> <li>• be suitably prepared for studies beyond Ordinary Level in related pure sciences, in applied sciences or in science-related courses.</li> </ul> <p>(ii) develop abilities and skills that</p> <ul style="list-style-type: none"> <li>• are relevant to the study and practice of science</li> <li>• are useful in everyday life and concern for accuracy and precision.</li> <li>• encourage efficient and safe practice</li> <li>• encourage effective communication.</li> </ul> <p>(iii) develop attitudes relevant to science such as</p> <ul style="list-style-type: none"> <li>• concern for accuracy and precision</li> <li>• objectivity</li> <li>• integrity</li> <li>• inquiry</li> <li>• initiative</li> <li>• inventiveness.</li> </ul> <p>The curriculum also promotes awareness in the study and practice of science include co-operative and cumulative activities, and is subject to social, economic, technological, ethical and cultural influences and limitations. Students would be able to understand that the applications of science may be both beneficial and detrimental to the individual, the community and the environment. Students will recognise that science transcends national boundaries and that the language of science, correctly and rigorously applied, is universal and the use of information technology is important for communication, as an aid to experiments and as a tool for the interpretation of experimental and theoretical results.</p>	

SCIENCES (EXPRESS)		
Subject/Code	SCIENCE (CHEMISTRY, BIOLOGY) (5078)	SCIENCE (PHYSICS, CHEMISTRY) (5076)
<b>Assessment Format</b>	<p><b>Paper 1 (Multiple Choice)</b> - 40 marks (20%), - 1 hour</p> <p><b>Paper 3 (Chemistry Structured)</b> - 65 marks (32.5%), - 1 hour 15 minutes</p> <p><b>Paper 4 (Biology Structured)</b> - 65 marks (32.5%), - 1 hour 15 minutes</p> <p><b>Paper 5 (Practical)</b> - 30 marks (15%) - 1 hour 30 minutes</p>	<p><b>Paper 1 (Multiple Choice)</b> - 40 marks (20%), - 1 hour</p> <p><b>Paper 2 (Physics Structured)</b> - 65 marks (32.5%), - 1 hour 15 minutes</p> <p><b>Paper 3 (Chemistry Structured)</b> - 65 marks (32.5%), - 1 hour 15 minutes</p> <p><b>Paper 5 (Practical)</b> - 30 marks (15%) - 1 hour 30 minutes</p>
<b>Prerequisites</b>	Students should display an interest in Biology in Lower Secondary Science.	Students should display an interest in Physics in Lower Secondary Science.
<b>Contact</b>	Mr Alwin Njoo, SSD & covering HOD Science E-mail: njoo_kiat_guan_alwin@schools.gov.sg Tel: 6769 1386	

Subject/Code	ADDITIONAL MATHEMATICS (EXPRESS) (4049)	
<b>Link to Syllabus</b>	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2021syllabus/4049_y21_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2021syllabus/4049_y21_sy.pdf</a>	
<b>Description</b>	<p>The O-Level Additional Mathematics assumes knowledge of O-Level Mathematics content and includes more in-depth treatment of important topics. O-Level Additional Mathematics, together with O-Level Mathematics content, provides the prerequisite knowledge required for H2 Mathematics at the pre-university level. The content is organised into three strands, namely, Algebra, Geometry and Trigonometry, and Calculus. Besides conceptual understanding and skill proficiency explicated in the content strand, the development of process skills, namely, reasoning, communication and connections, thinking skills and heuristics, and applications and modelling are also emphasised.</p> <p>The study of Additional Mathematics prepares students adequately for A-level H2 Mathematics and H2 Further Mathematics, where a strong foundation in algebraic manipulation skills and mathematical reasoning skills are required. (Needed for admission into H2 Mathematics and H2 Further Mathematics in JC).</p> <p><b>It also provides a strong mathematical foundation for many courses in Polytechnics, especially engineering courses (Not a requirement for JC Non-Science course and Polytechnic course).</b></p>	
<b>Outcomes</b>	<p>The O-Level Additional Mathematics syllabus aims to enable students who have an aptitude and interest in mathematics to:</p> <ul style="list-style-type: none"> <li>• acquire mathematical concepts and skills for higher studies in mathematics and to support learning in other subjects, in particular, the sciences</li> <li>• develop thinking, reasoning, communication, application and metacognitive skills through a mathematical approach to problem solving;</li> <li>• connect ideas within mathematics and between mathematics and the sciences through applications of mathematics; and appreciate the abstract nature and power of mathematics.</li> </ul>	
<b>Assessment Format</b>	<b>Paper 1 (Written)</b> - 90 marks (50%) - 2 hours 15 minutes	<b>Paper 2 (Written)</b> - 90 marks (50%) - 2 hours 15 minutes
<b>Prerequisites</b>	Students should have done well in Secondary 2 Mathematics and in particular, possess a good mastery of Algebra.	
<b>Contact</b>	Mdm Aw Soo Bing, HOD Mathematics E-mail: aw_soo_bing@schools.gov.sg Tel: 6769 1386	

HUMANITIES (EXPRESS)			
Subject/Code	HUMANITIES (SOCIAL STUDIES, GEOGRAPHY) (2272)	HUMANITIES (SOCIAL STUDIES, HISTORY) (2273)	HUMANITIES (SOCIAL STUDIES, LITERATURE IN ENGLISH) (2274)
Link to Syllabus	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2021syllabus/2272_y21_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2021syllabus/2272_y21_sy.pdf</a>	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2021syllabus/2273_y21_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2021syllabus/2273_y21_sy.pdf</a>	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2022syllabus/2274_y22_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2022syllabus/2274_y22_sy.pdf</a>
Description	<p>Humanities has been a compulsory subject for GCE 'N' and 'O' Level Examination from 2001. Students can choose to do either (Social Studies / Geography) or (Social Studies / History) or (Social Studies / Literature in English)</p> <p>The Social Studies component aims to develop our students into well-informed, responsible citizens with a sense of national identity and a global perspective through the understanding of the experiences of other countries and issues that affect the socio-economic development, governance and future of Singapore. It aims to help students develop thinking and process skills which are essential for life-long and independent learning. The syllabus covers 3 broad societal issues:</p> <p>Issue 1: Exploring Citizenship and Governance Issue 2: Living in a Diverse Society Issue 3: Being Part of a Globalised World</p>		
	<p>The Geography component develops knowledge and understanding of the Earth's physical features and processes, human phenomena as well as the interaction between people and environments. Geography provides students with a particular set of perspectives to make sense of Singapore and the complex and dynamically changing world. Geographical concepts also help students to understand contemporary</p>	<p>The History component allows students to draw connections between the past and present by understanding how the nature and impact of past developments explain today's world. It aims to help students become balanced, discerning, empathetic, inquiring, knowledgeable and methodical individuals able to make well-reasoned arguments and decisions.</p>	<p>The aims of the Literature in English component are to:</p> <p><u>Ethical</u></p> <ul style="list-style-type: none"> <li>• raise awareness of timeless issues concerning society</li> <li>• promote the appreciation of multiple perspectives; and</li> <li>• build empathy and global awareness.</li> </ul> <p><u>Aesthetic</u></p> <ul style="list-style-type: none"> <li>• inculcate the habit of close reading</li> <li>• promote heightened appreciation of</li> </ul>



HUMANITIES (EXPRESS)			
Subject/Code	HUMANITIES (SOCIAL STUDIES, GEOGRAPHY) (2272)	HUMANITIES (SOCIAL STUDIES, HISTORY) (2273)	HUMANITIES (SOCIAL STUDIES, LITERATURE IN ENGLISH) (2274)
	<p>people and environmental issues.</p> <p>The Geography component investigates the interaction between human and the physical environment and cover the topics of:</p> <ul style="list-style-type: none"> <li>• Living with Tectonic Hazards</li> <li>• Variable Weather and Changing Climate</li> <li>• Global Tourism</li> <li>• Food Resources</li> </ul> <p>and geographical skills in:</p> <ul style="list-style-type: none"> <li>• Topographical map reading</li> <li>• Geographical data and techniques</li> <li>• Geographical investigations</li> </ul>	<p>The History component covers the Making of the Contemporary World Order, 1900s to 1991.</p> <p>Units covered in Elective History are as follows:</p> <p>The World in Crisis</p> <ul style="list-style-type: none"> <li>• Inquiry Question: What forces and developments changed Europe and the Asia-Pacific in the first half of the 20th Century</li> </ul> <p>Bipolarity and the Cold War</p> <ul style="list-style-type: none"> <li>• Inquiry Question: How did the Cold War Impact the World Order in the Post-1945 Years?</li> </ul>	<p>nuances of language; and</p> <ul style="list-style-type: none"> <li>• sensitise students to artistic decisions made by writers.</li> </ul> <p><u>Intellectual</u></p> <ul style="list-style-type: none"> <li>• cultivate metacognitive habits of mind as students pay attention to the impact of language on one's thoughts and feelings</li> <li>• develop greater acceptance for ambiguity and open-endedness; and</li> <li>• equip students with the skills to convince others of their interpretations, based on sound reasoning with evidence.</li> </ul>

HUMANITIES (EXPRESS)			
Subject/Code	HUMANITIES (SOCIAL STUDIES, GEOGRAPHY) (2272)	HUMANITIES (SOCIAL STUDIES, HISTORY) (2273)	HUMANITIES (SOCIAL STUDIES, LITERATURE IN ENGLISH) (2274)
<b>Outcomes</b>	Humanities enables students to: <ul style="list-style-type: none"> <li>• develop a range of critical thinking skills</li> <li>• critique, reason, argue, put forward different points of view and arrive at their own conclusion.</li> <li>• be information-literate and adept in process skills so that they will be able to acquire, interpret, manage and use information creatively and effectively</li> <li>• appreciate the implications of various decisions, actions and relationships on society and/or environment</li> <li>• respect and value diverse perspectives and cultural and historical backgrounds of people, and work towards peaceful relationships and positive outcomes for society and/or its environment</li> <li>• appreciate the importance of living in an interdependent community with increasing global connections</li> <li>• recognise the value of participating as ethical, active and informed citizens in a democratic society within a global community</li> <li>• experience and appreciate their ability to influence the present and the future</li> <li>• evaluate alternatives</li> </ul>		
<b>Assessment Format</b>	<b>Paper 1 [Social Studies]</b> <ul style="list-style-type: none"> <li>- Section A: Source based Case Study [35m]: 5 Compulsory Questions - Q1-5</li> <li>- Section B : Structured Response Questions [15m] – 2 Compulsory Questions: Q6 (7m); Q7 (8m)</li> </ul> <b>Duration</b> : 1 hour 45 minutes  <b>Paper 2 [Geography]</b> <ul style="list-style-type: none"> <li>- Section A: 2 Structured Questions on Geographical Investigations [13m] choose 1</li> <li>- Section B: 2 Structured</li> </ul>	<b>Paper 1 [Social Studies]</b> <ul style="list-style-type: none"> <li>- Section A: Source based Case Study [35m]: 5 Compulsory Questions - Q1-5</li> <li>- Section B : Structured Response Questions [15m] – 2 Compulsory Questions: Q6 (7m); Q7 (8m)</li> </ul> <b>Duration</b> : 1 hour 45 minutes  <b>Paper 3 [History]</b> <ul style="list-style-type: none"> <li>- Section A: Source Based Case Study [30m]</li> <li>- Section B: Structured Essay Question [20m]</li> </ul>	<b>Paper 1 [Social Studies]</b> <ul style="list-style-type: none"> <li>- Section A: Source based Case Study [35m]: 5 Compulsory Questions - Q1-5</li> <li>- Section B : Structured Response Questions [15m] – 2 Compulsory Questions: Q6 (7m); Q7 (8m)</li> </ul> <b>Duration</b> : 1 hour 45 minutes  <b>Paper 2 [Literature in English]</b> <ul style="list-style-type: none"> <li>- Section A: Prose [25%] For each of the six set texts in this section, one passage-based question and two essay</li> </ul>

HUMANITIES (EXPRESS)			
Subject/Code	HUMANITIES (SOCIAL STUDIES, GEOGRAPHY) (2272)	HUMANITIES (SOCIAL STUDIES, HISTORY) (2273)	HUMANITIES (SOCIAL STUDIES, LITERATURE IN ENGLISH) (2274)
	<p>Question [12m] choose 1</p> <ul style="list-style-type: none"> <li>- Section C: 2 Structured Questions [25m] choose 1</li> </ul> <p><b>Duration</b> :1 hour 40 minutes</p>	<ul style="list-style-type: none"> <li>• 2 Questions, choose 1</li> </ul> <p><b>Duration</b>: 1 hour 40 minutes</p>	<p>questions will be set. Candidates will answer one question [25%] based on one of the six set texts. For every year of examination, one or two Singapore texts will be set.</p> <ul style="list-style-type: none"> <li>- Section B: Unseen Poetry [25%]</li> </ul> <p>There are no set texts in this section. There will be a choice of two unseen poems with one question set on each poem. Candidates will answer one of the two questions [25%]. For every year of examination, one question will be set on a Singapore text.</p>
<b>Prerequisites</b>	Students should have a strong competency in English Language. In addition, they should display an aptitude in Geography, as well as critical and flexible thinking. They should take an interest in societal and environmental issues, own their learning through active engagement in learning activities and through questioning, reflecting and persevering in the pursuit of learning.	Students should have a strong competency in English Language. In addition, they should display an aptitude in History, as well as critical and flexible thinking. They should take an interest in societal issues, own their learning through active engagement in learning activities. Through questioning, reflecting and persevering in the pursuit of learning, they should demonstrate the ability to organise and communicate historical knowledge and understanding through the use of appropriate historical terms and ideas appropriate to the	Students should demonstrate the following inclinations: (i) able to demonstrate, through close analysis, knowledge of the literary texts studied (ii) respond with knowledge and understanding to literary texts from the genres of prose, poetry and drama (iii) demonstrate understanding of the ways in which writers' choices of form, structure and language shape meanings (iv) communicate a sensitive and informed personal response to what is

HUMANITIES (EXPRESS)			
Subject/Code	HUMANITIES (SOCIAL STUDIES, GEOGRAPHY) (2272)	HUMANITIES (SOCIAL STUDIES, HISTORY) (2273)	HUMANITIES (SOCIAL STUDIES, LITERATURE IN ENGLISH) (2274)
		mode of delivery, purpose and audience.	read; and (v) express responses clearly and coherently, using textual evidence where appropriate.
<b>Contact</b>	<p>Mrs Vena Foo, HOD Humanities E-mail: chan_gek_chu_vena@schools.gov.sg Tel: 6769 1386</p> <p>Mdm Azwiza Ahmad, HOD English Language &amp; Literature E-mail: azwiza_ahmad@schools.gov.sg Tel: 6769 1386</p>		

Subject/Code	PRINCIPLES OF ACCOUNT (EXPRESS) (7087)
Link to Syllabus	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2022syllabus/7087_y22_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2022syllabus/7087_y22_sy.pdf</a>
Description	<p>The POA syllabus emphasises on student's acquisition of an understanding of content through application of accounting concepts in a variety of business and personal settings.</p> <p>The subject is designed to provide students with a meaningful basic introduction to financial accounting and to develop an appreciation of the discipline of accounting. It is grounded in preparing, communicating and using financial information, and appreciating the need for ethical conduct. The subject places emphasis on the understanding and application of accounting knowledge to develop lifelong skills and values that will be of value in the increasingly complex world of business.</p> <p>Topics</p> <ul style="list-style-type: none"> <li>• Recording business' transactions</li> <li>• Calculating business' expenses, revenues, profits, losses, assets, liabilities and capital</li> <li>• Maintaining and recording of business' cash and stock</li> <li>• Preparing, analysing and interpreting financial statements and information</li> <li>• Using financial information and financial ratio for evaluation of profitability, liquidity and efficacy of inventory management and trade receivables management</li> <li>• Decision-making and evaluating choices using both accounting and non-accounting information</li> </ul> <p>The study of POA allows students to be prepared for post-secondary education choices, in particular, the accountancy and business courses. Students will also acquire knowledge and understanding of basic accounting concepts, principles and procedure in the context of the business.</p>

Subject/Code	PRINCIPLES OF ACCOUNT (EXPRESS) (7087)
<b>Outcomes</b>	<p>POA enables students to:</p> <ul style="list-style-type: none"> <li>• acquire knowledge and understanding of fundamental accounting concepts, principles and procedures in the context of business aims and activities.</li> <li>• develop understanding of how accounting information is being used and presented.</li> <li>• develop skills in recording, organising, summarising and analysing business transactions.</li> <li>• develop skills of skills of presenting quantitative accounting information.</li> <li>• develop skills of analysing, interpreting and evaluating business performance and status.</li> <li>• develop attitudes of accuracy, orderliness and logical thought and an appreciation of professional ethics</li> </ul>
<b>Assessment Format</b>	<p><b>Paper 1 (Written)</b>  - 40 marks (40%),  - 1 hour</p> <p><b>Paper 2 (Written)</b>  - 60 marks (60%)  - 2 hours</p>
<b>Prerequisites</b>	Students should do well and display an aptitude in English and Mathematics.
<b>Contact</b>	<p>Mr Tan Wee Liat HOD Information &amp; Communication Technology  E-mail: tan_wee_liat@schools.gov.sg  Tel: 6769 1386</p>

COURSEWORK SUBJECTS			
Subject/Code	ART (6123)	DESIGN AND TECHNOLOGY (7059)	NUTRITION AND FOOD SCIENCE (6097)
<b>Link to Syllabus</b>	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/6123_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/6123_y23_sy.pdf</a>	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/7059_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/7059_y23_sy.pdf</a>	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/6097_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/6097_y23_sy.pdf</a>
<b>Description</b>	The Art curriculum is designed to provide students with the opportunity to give form and meaning to their ideas, thoughts and feelings through visual and tactile forms. The breadth and depth of study cater to a range of abilities and interests. The process of art making involving the use of a variety of media and technologies, as well as its role in the development of critical and creative thinking, continue to be maintained. Visual literacy skills such as perceiving and responding to visual images, and analysis of visual information in its many forms are further enhanced and developed in this syllabus.	The D&T curriculum is designed to Provide opportunity to learn through design-and-make projects guided by a design process. The design process entails identifying design needs from real-world experiences, generating and developing ideas, and realising the design solution; with research carried out when necessary. Research includes testing ideas through quick mock-ups and evaluating the final design solution with the intended user. In doing so, pupils acquire related knowledge and develop skills that turn ideas into reality and values like mindfulness, empathy and sensitivity in the areas of social, culture and environment.	The Nutrition & Food Science curriculum is designed to provide students with an understanding of the principles of nutrition and the concept of a balanced diet in meal planning. It focuses on the relationship between nutrition and health, making informed food choices regarding a healthy diet and the scientific principles underlying food preparation, processing and safety.
<b>Outcomes</b>	Art enables students to: <ul style="list-style-type: none"> <li>• nurture an informed awareness and appreciation of the visual arts;</li> <li>• enhance ability to identify and solve problems creatively in visual and</li> </ul>	D&T aims to: <ul style="list-style-type: none"> <li>• develop confidence, pride and tenacity through exploring real-world design opportunities for which ideas are developed</li> </ul>	NFS aims to: <ul style="list-style-type: none"> <li>• To develop student's understanding of the concepts of nutrition and meal planning</li> <li>• To develop student's</li> </ul>

COURSEWORK SUBJECTS			
Subject/Code	ART (6123)	DESIGN AND TECHNOLOGY (7059)	NUTRITION AND FOOD SCIENCE (6097)
	tactile forms; <ul style="list-style-type: none"> <li>develop competency in the use of art and design principles, materials and processes;</li> <li>foster self-confidence and a sense of achievement through the practice of the visual arts;</li> <li>cultivate an inquiring mind, a spirit of experimentation and a passion for the visual arts.</li> </ul>	<ul style="list-style-type: none"> <li>develop the quality of mindfulness, empathy and sensitivity through improving aspects of their environment in everyday life</li> <li>embrace complexities, uncertainties and the inherent social dimension of the design process when</li> <li>exploring design opportunity vis-à-vis design ideas</li> <li>cultivate thinking through doodling and sketching/drawing</li> <li>experiment and prototype ideas using appropriate materials and tools</li> <li>build on their innate curiosity and ability to create</li> <li>exercise judgements</li> </ul>	understanding of the link between diet and health <ul style="list-style-type: none"> <li>To develop candidates' understanding of the principles of food science</li> <li>Lead a healthier lifestyle proactively through proper diet and nutrition.</li> <li>Advocate sustainable food consumption by planning and making appropriate food choices.</li> <li>Apply principles of culinary science creatively in food preparation and cooking.</li> </ul>
Assessment Format	<b>Paper 1 (Coursework)</b> - 100 marks (60%) - over a period of 34 weeks - To submit final artwork and not more than eight A2 sheets of preparatory studies <b>Paper 2 (Drawing and Painting)</b> - 100 marks (40%) - over a period of 3 weeks (Preparatory work) leading to 3-hour (Final paper)	<b>Paper 1 (Written)</b> - 80 marks (40%), - 2 hours <b>Paper 2 (Coursework)</b> - 60 marks (60%), - over a period of 22 weeks	<b>Paper 1 (Written)</b> - 100 marks (40%), - 2 hours <b>Paper 2 (Coursework)</b> - 80 marks (60%) - 28 hours of time allocated. - Report is about 20 to 25 pages.



COURSEWORK SUBJECTS			
Subject/Code	ART (6123)	DESIGN AND TECHNOLOGY (7059)	NUTRITION AND FOOD SCIENCE (6097)
	<b>Paper 3 (Study of Visual Arts)</b> - 100 marks (40%) - 2 structured questions and 2 structured comparison questions		
<b>Prerequisites</b>	Students should do well and have a keen interest in Art.	Students should preferably do well in Design & Technology.  Students should also show keen interest in solving design problems and is able to demonstrate consistent work over a sustained period of time.	Students should preferably do well in Food & Consumer Education.  Students should also have a keen interest in nutrition & food science and is able to demonstrate consistent work over a sustained period of time.
<b>Contact</b>	Mr Davis Huang <a href="mailto:Huang_yaonan@schools.gov.sg">Huang_yaonan@schools.gov.sg</a> Tel: 67691386		

## Administrative Matters

1. For more information on the various GCE 'O' Level subjects please visit the Singapore Assessment and Examination Board (SEAB) Website - <http://www.seab.gov.sg/>
2. For any queries with regards the matters pertaining to Secondary Two, please contact Assistant Year Head (Lower Secondary)
  - Mrs Ada Ong (Email – [sheu\\_cifang@schools.gov.sg](mailto:sheu_cifang@schools.gov.sg)), Ext 822
3. Should there be any queries regarding subject options exercise, please contact the following Key Personnel:
  - a. Mdm Azwiza Ahmad (Email – [azwiza\\_ahmad@schools.gov.sg](mailto:azwiza_ahmad@schools.gov.sg)), Ext 623
  - b. Mdm Aw Soo Bing (Email – [aw\\_soo\\_bing@schools.gov.sg](mailto:aw_soo_bing@schools.gov.sg)), Ext 629
  - c. Mr Yusman Ithnin (Email – [yusman\\_b\\_ithnin@schools.gov.sg](mailto:yusman_b_ithnin@schools.gov.sg)), Ext 885

## Educational and Career Guidance (ECG) Resources

1. **MOE Post-Secondary Site** [<https://www.moe.gov.sg/post-secondary>]  
This is the official MOE website that covers the different areas of post-secondary education. Students can also use the pathway options checker to learn more about the different pathways.
2. **My Skillsfuture Portal (Sec)** [<https://www.myskillsfuture.gov.sg/content/student/en/secondary.html>]  
This one-stop portal provides various resources and profiling tools to help students discover more about themselves and different post-secondary options. Students can tap on the rich information in the portal to make informed education and career decisions.
3. **1-1 ECG Counselling Booking of Appointment Form** [<https://go.gov.sg/chatwithmsfung>]  
Students can book appointments for 1-1 ECG counselling with Ms Rosetta Fung, our ECG counsellor who will guide students to discover more about themselves and decide on suitable subject combinations or post-secondary pathways.