



# **BARTLEY SECONDARY SCHOOL**

2024 SECONDARY THREE  
SUBJECT OPTIONS EXERCISE

## **INFORMATION BOOKLET FOR SEC 2 STUDENTS & PARENTS**

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## Promotion Criteria for Secondary 2 students

### Secondary 2 Express to Secondary 3 Express

#### Minimum Attainment Level

- ✓ Pass in English Language
- ✓ Pass in Overall percentage of All subjects combined
- ✓ Students who have not met the minimum attainment level will be laterally transferred to Sec 3 Normal (Academic).
- ✓ There is no retention at Sec 2 Express.

### Secondary 2 Normal (Academic) to Secondary 3 Normal (Academic)

#### Minimum Attainment Level

- ✓ Grade 5 or better in English Language and 2 other subjects OR
- ✓ Grade 5 or better in 4 subjects
- ✓ Students who have not met the minimum attainment level will be retained at Sec 2 Normal (Academic)

### Secondary 2 Normal (Academic) to Secondary 3 Express

#### Criterion

- ✓ Attain a minimum of 70% in the overall percentage of ALL subjects combined

### Secondary 2 Normal (Technical) to Secondary 3 Normal (Technical)

#### Minimum Attainment Level

- ✓ Grade D or better in 2 subjects, one of which should be English Language or Mathematics
- ✓ Students who have not met the minimum attainment level will be retained at Sec 2 Normal (Technical)

### Secondary 2 Normal (Technical) to Secondary 2 Normal (Academic)

#### Criterion

- ✓ Attain a minimum of 70% in the overall percentage of ALL subjects combined

## Sec 3 Subject Options Exercise

### How is the subject options derived?

- ✓ Subject Options are reviewed annually and the eventual options are based on the following factors
  - Strengths and aptitudes of our students;
  - Availability of physical resources such as workshops, laboratories, computer laboratories, art studios, etc.;
  - Availability of teaching staff with expertise for specific subjects;
  - Requirements at post-secondary institutions such as junior colleges, polytechnic and ITE
  - Performance of past cohort of students at national examinations.
  - Minimal number of eligible students choosing the subject options
- ✓ The finalized subject options to be offered will only be shared with students in October.

### Key Considerations when choosing Subject Options

- ✓ Personal Strengths & Interest
  - Everyone has his/her unique strengths and interests. Students perform best if they are learning subjects that they are good at and interested in.
  - Students should not choose a subject options just because their friends are choosing them.
- ✓ Criteria and Requirements
  - Students should take note of the criteria for the different subject options as well as subject-specific criteria.
  - Students should identify the subjects that they have yet to meet the requirement and proactively work to improve in these subjects.
- ✓ Post-Secondary Opportunities
  - Students should consider the courses that they are interested to pursue after their secondary education and find out about the admission requirements for these courses.
  - Students should then consider choosing subject options that give them the best chance to enroll in the preferred post-secondary courses.
  - Students should consider their career aspirations and find out the relevant educational options to achieve these aspirations

## Important Dates

Date	Events
31 March 2023	Sharing of Sec 3 Subject Options Exercise during Sec 2 Parent Engagement Session
Term 3	Briefing on Sec 3 subjects for Sec 2 students
24 – 26 Oct 2023	Sec 3 Subject Options Exercise
3 Nov 2023	Release of outcome for Sec 3 Subject Options Exercise
6 - 8 Nov 2023	Appeal for Sec 3 Subject Options
15 Nov 2023	Release of outcome for appeals for Sec 3 subject options

## Procedure for Allocation of Subject Options

The Sec 3 Subject Option Exercise will be conducted after the End-of-Year Examination, on **24 - 26 Oct 2023**.

For students in the Express and NA courses, they will be required to indicate their top 6 subject options, in order of preference. For students in NT courses, they will be required to indicate their top 4 subject options, in order of preference. Allocation of subject options will be conducted based on the following considerations:

1. Merits, based on their overall percentage of ALL subjects combined.
2. Criteria for subject options
3. Subject-specific criteria, for instance a minimum of 60% in Geography and English Language to offer Pure Geography
4. Students' choice of subject options, in order of preference
5. Meeting the minimum number of students to start a class. In general, the minimum number is 10.
6. Subject-specific requirement, for instance, a cap of 20 students per class for D&T
7. Availability of teaching staff and resources, such as labs and workshops.

After the release of the outcome of the subject option exercise on **3 Nov 2023**, students may put up an appeal from **6 to 8 Nov 2023**. The school will deliberate on the merit of the appeal and release the outcome of the appeal on **15 Nov 2023**.

## Procedure for Changing of Subject Combination

- ❖ Any request for changes to subject combination will NOT be considered before the end of Secondary 3 as students need time to adapt to and cope with the learning of the given subject combination at the upper secondary level.
- ❖ Approval to request for change of subject combination will take into considerations
  - Students' academic achievement across all subjects;
  - Teachers' feedback and recommendation;
  - Students' statement stating the reasons for request and the effort they have put in to improve their results.
- ❖ Students need to submit the form for Request for Changes to Subject and a personal statement.

## Subject Options 2024

### Subject Options for Sec 3 Express Course

8-Subject Combinations							
S/No.	Code	4th	5th	6th	7th	8th	Criteria
1	1A	Combined Humanities (Social Studies + Geog/Hist/Lit)	Additional Mathematics	Pure Chemistry	Pure Physics	Pure Biology	Overall $\geq$ 70% Mathematics $\geq$ 70% Science $\geq$ 75%
2	1B	Combined Humanities (Social Studies + Hist/Lit)	Additional Mathematics	Pure Chemistry	Pure Physics	Pure Geography	Overall $\geq$ 70% Mathematics $\geq$ 70% Science $\geq$ 70% Geog $\geq$ 70% EL $\geq$ 60%
3	1C	Combined Humanities (Social Studies + Hist/Lit)	Additional Mathematics	Pure Chemistry	Pure Biology	Pure Geography	Overall $\geq$ 70% Mathematics $\geq$ 70% Science $\geq$ 70% Geog $\geq$ 70% EL $\geq$ 60%

7-Subject Combinations (Pure Sciences)							
S/No.	Code	4th	5th	6th	7th	8th	Criteria
4	2A	Combined Humanities (Social Studies + Geog/Hist/Lit)	Additional Mathematics	Pure Chemistry	Pure Physics		Overall $\geq$ 55% Mathematics $\geq$ 60% Science $\geq$ 70%
5	2B	Combined Humanities (Social Studies + Geog/Hist/Lit)	Principles of Accounts	Pure Chemistry	Pure Physics		Overall $\geq$ 55% Science $\geq$ 70%
6	2C	Combined Humanities (Social Studies + Geog/Hist/Lit)	Additional Mathematics	Pure Chemistry	Pure Biology		Overall $\geq$ 55% Mathematics $\geq$ 60% Science $\geq$ 70%
7	2D	Combined Humanities (Social Studies + Geog/Hist/Lit)	Principles of Accounts	Pure Chemistry	Pure Biology		Overall $\geq$ 55% Science $\geq$ 70%

English Language, Mother Tongue Language & Mathematics are 3 compulsory subjects

7-Subject Combinations (Combined Sciences)						
S/No.	Code	4th	5th	6th	7th	Criteria
8	3A	Combined Humanities (Social Studies + Hist/Lit)	Additional Mathematics	Sci (Chem/Phy)	Pure Geography	Mathematics $\geq$ 60% Geog $\geq$ 65% EL $\geq$ 60%
9	3B	Combined Humanities (Social Studies + Hist/Lit)	Principles of Accounts	Sci (Chem/Phy)	Pure Geography	Geog $\geq$ 65% EL $\geq$ 60%
10	3C	Combined Humanities (Social Studies + Geog/Hist/Lit)	Additional Mathematics	Sci (Chem/Phy)	Art	Mathematics $\geq$ 60%
11	3D	Combined Humanities (Social Studies + Geog/Hist/Lit)	Principles of Accounts	Sci (Chem/Phy)	Art	
12	3E	Combined Humanities (Social Studies + Geog/Hist/Lit)	Additional Mathematics	Sci (Chem/Phy)	Design & Technology	Mathematics $\geq$ 60%
13	3F	Combined Humanities (Social Studies + Geog/Hist/Lit)	Principles of Accounts	Sci (Chem/Phy)	Design & Technology	
14	3G	Combined Humanities (Social Studies + Geog/Hist/Lit)	Additional Mathematics	Sci (Chem/Phy)	Nutrition & Food Science	Mathematics $\geq$ 60%
15	3H	Combined Humanities (Social Studies + Geog/Hist/Lit)	Principles of Accounts	Sci (Chem/Phy)	Nutrition & Food Science	
16	3I	Combined Humanities (Social Studies + Hist/Lit)	Additional Mathematics	Sci (Chem/Bio)	Pure Geography	Mathematics $\geq$ 60% Geog $\geq$ 65% EL $\geq$ 60%
17	3J	Combined Humanities (Social Studies + Hist/Lit)	Principles of Accounts	Sci (Chem/Bio)	Pure Geography	Geog $\geq$ 65% EL $\geq$ 60%
18	3K	Combined Humanities (Social Studies + Geog/Hist/Lit)	Additional Mathematics	Sci (Chem/Bio)	Art	Mathematics $\geq$ 60%
19	3L	Combined Humanities (Social Studies + Geog/Hist/Lit)	Principles of Accounts	Sci (Chem/Bio)	Art	
20	3M	Combined Humanities (Social Studies + Geog/Hist/Lit)	Additional Mathematics	Sci (Chem/Bio)	Design & Technology	Mathematics $\geq$ 60%
21	3N	Combined Humanities (Social Studies + Geog/Hist/Lit)	Principles of Accounts	Sci (Chem/Bio)	Design & Technology	
22	3O	Combined Humanities (Social Studies + Geog/Hist/Lit)	Additional Mathematics	Sci (Chem/Bio)	Nutrition & Food Science	Mathematics $\geq$ 60%
23	3P	Combined Humanities (Social Studies + Geog/Hist/Lit)	Principles of Accounts	Sci (Chem/Bio)	Nutrition & Food Science	

*English Language, Mother Tongue Language & Mathematics are 3 compulsory subjects*

*For coursework subjects, aptitude for the selected subject and teachers' recommendation will be considered*

6-Subject Combinations					
S/No.	Code	4th	5th	6th	Criteria
24	4A	Combined Humanities (Social Studies + Geog/Hist/Lit)	Sci (Chem/Phy)	Art	
25	4B	Combined Humanities (Social Studies + Geog/Hist/Lit)	Sci (Chem/Phy)	Design & Technology	
26	4C	Combined Humanities (Social Studies + Geog/Hist/Lit)	Sci (Chem/Phy)	Nutrition & Food Science	
27	4D	Combined Humanities (Social Studies + Geog/Hist/Lit)	Sci (Chem/Bio)	Art	
28	4E	Combined Humanities (Social Studies + Geog/Hist/Lit)	Sci (Chem/Bio)	Design & Technology	
29	4F	Combined Humanities (Social Studies + Geog/Hist/Lit)	Sci (Chem/Bio)	Nutrition & Food Science	

*English Language, Mother Tongue Language & Mathematics are 3 compulsory subjects*

*For coursework subjects, aptitude for the selected subject and teachers' recommendation will be considered*



### Subject Options for Sec 3 Normal (Academic) Course

7-Subject Combinations						
S/No.	Code	4th	5th	6th	7th	Criteria
1	1A	Combined Humanities (Social Studies + Geog/Hist/Lit)	Principles of Accounts	Sci (Chem/Phy)	Art	Overall $\geq$ 60% Mathematics $\geq$ 50%
2	1B	Combined Humanities (Social Studies + Geog/Hist/Lit)	Principles of Accounts	Sci (Chem/Phy)	Design & Technology	Overall $\geq$ 60% Mathematics $\geq$ 50%
3	1C	Combined Humanities (Social Studies + Geog/Hist/Lit)	Principles of Accounts	Sci (Chem/Phy)	Nutrition & Food Science	Overall $\geq$ 60% Mathematics $\geq$ 50%
4	1D	Combined Humanities (Social Studies + Geog/Hist/Lit)	Principles of Accounts	Sci (Chem/Bio)	Art	Overall $\geq$ 60% Mathematics $\geq$ 50%
5	1E	Combined Humanities (Social Studies + Geog/Hist/Lit)	Principles of Accounts	Sci (Chem/Bio)	Design & Technology	Overall $\geq$ 60% Mathematics $\geq$ 50%
6	1F	Combined Humanities (Social Studies + Geog/Hist/Lit)	Principles of Accounts	Sci (Chem/Bio)	Nutrition & Food Science	Overall $\geq$ 60% Mathematics $\geq$ 50%

6-Subject Combinations					
S/No.	Code	4th	5th	6th	Criteria
7	2A	Combined Humanities (Social Studies + Geog/Hist/Lit)	Sci (Chem/Phy)	Art	<i>For coursework subjects, aptitude for the selected subject and teachers' recommendation will be considered</i>
8	2B	Combined Humanities (Social Studies + Geog/Hist/Lit)	Sci (Chem/Phy)	Design & Technology	
9	2C	Combined Humanities (Social Studies + Geog/Hist/Lit)	Sci (Chem/Phy)	Nutrition & Food Science	
10	2D	Combined Humanities (Social Studies + Geog/Hist/Lit)	Sci (Chem/Bio)	Art	
11	2E	Combined Humanities (Social Studies + Geog/Hist/Lit)	Sci (Chem/Bio)	Design & Technology	
12	2F	Combined Humanities (Social Studies + Geog/Hist/Lit)	Sci (Chem/Bio)	Nutrition & Food Science	

English Language, Mother Tongue Language & Mathematics are 3 compulsory subjects

## Subject Options for Sec 3 Normal (Technical) Course

6-Subject Combinations					
S/No.	Code	4th	5th	6th	Criteria
1	1A	Computer Applications	Science	Mobile Robotics	Overall $\geq$ 60%
2	1B	Computer Applications	Science	Design & Technology	<i>For coursework subjects, aptitude for the selected subject and teachers' recommendation will be considered</i>
3	1C	Computer Applications	Science	Nutrition & Food Science	

*English Language, Mother Tongue Language & Mathematics are 3 compulsory subjects*

## Criteria to Offer Out-of-Stream Subjects

	Criteria to offer Out-of-Stream Subjects at Secondary 3	
	at Express Level	at Normal (Academic) Level
Students who are taking SBB for the subject at the Express level	<ul style="list-style-type: none"> <li>Relevant Subject at Express Level <math>\geq</math> 65%</li> <li>Overall Average <math>\geq</math> 60%</li> </ul>	<ul style="list-style-type: none"> <li>Not Applicable</li> </ul>
Students who are <b>not</b> taking SBB for the subject at the Express level	<ul style="list-style-type: none"> <li>Relevant Subject at NA Level <math>\geq</math> 75%</li> <li>Overall Average <math>\geq</math> 65%</li> <li>Teachers' Recommendation on readiness to cope with subject at higher level</li> </ul>	<ul style="list-style-type: none"> <li>Not Applicable</li> </ul>
Students who are taking SBB for the subject at the NA Level	<ul style="list-style-type: none"> <li>Not Applicable</li> </ul>	<ul style="list-style-type: none"> <li>Relevant Subject at NA Level <math>\geq</math> 65%</li> <li>Overall Average <math>\geq</math> 60%</li> </ul>

Note:

**Subject Based Banding (SBB)** – For Sec 1 & 2 students who are deemed able to cope with selected subjects at more demanding level

**Out-of-Stream Subjects (OOS)** – For upper secondary students to offer selected subjects at more demanding level.

## Subject Information

Subject/ Subject Code/ Assessment	Syllabus									
<p><b>Additional Mathematics (GCE O Level) [4049]</b></p> <table border="1" data-bbox="191 344 634 436"> <thead> <tr> <th>Component</th> <th>Duration</th> <th>Weighting</th> </tr> </thead> <tbody> <tr> <td>Paper 1</td> <td>2h 15m</td> <td>50%</td> </tr> <tr> <td>Paper 2</td> <td>2h 15m</td> <td>50%</td> </tr> </tbody> </table>	Component	Duration	Weighting	Paper 1	2h 15m	50%	Paper 2	2h 15m	50%	<p>The syllabus prepares students for A Level H2 Mathematics, where a strong foundation in algebraic manipulation skills and mathematical reasoning skills are required.</p> <p>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 application and modelling are also emphasized and assessed.</p>
Component	Duration	Weighting								
Paper 1	2h 15m	50%								
Paper 2	2h 15m	50%								
<p><b>Geography (GCE O Level) [2279]</b></p> <table border="1" data-bbox="191 611 634 703"> <thead> <tr> <th>Component</th> <th>Duration</th> <th>Weighting</th> </tr> </thead> <tbody> <tr> <td>Paper 1</td> <td>1h 45m</td> <td>50%</td> </tr> <tr> <td>Paper 2</td> <td>1h 45m</td> <td>50%</td> </tr> </tbody> </table>	Component	Duration	Weighting	Paper 1	1h 45m	50%	Paper 2	1h 45m	50%	<p>At all levels of study, Geography bridges the humanities, social and natural sciences. It is a holistic subject that provides students with integrative ways of understanding the real world. Students will explore the Earth, its natural and man-made environments and examine human interactions with these environments, from personal to global scales. Geography enables students to gain a deep appreciation of the Earth's beauty, the immense power of natural forces, and ingenious ways humans thrive under different circumstances. Through Geography, students will understand how places and landscapes evolve, deliberate on consequences arising from our everyday decisions, and experience the mosaic of cultures and societies.</p>
Component	Duration	Weighting								
Paper 1	1h 45m	50%								
Paper 2	1h 45m	50%								
<p><b>Principles of Accounts (GCE O Level) [7087]</b> <b>Principles of Accounts (GCE NA Level) [7086]</b></p> <table border="1" data-bbox="191 947 634 1039"> <thead> <tr> <th>Component</th> <th>Duration</th> <th>Weighting</th> </tr> </thead> <tbody> <tr> <td>Paper 1</td> <td>1h</td> <td>40%</td> </tr> <tr> <td>Paper 2</td> <td>2h</td> <td>60%</td> </tr> </tbody> </table>	Component	Duration	Weighting	Paper 1	1h	40%	Paper 2	2h	60%	<p>The syllabus is designed to teach age-appropriate and relevant accounting knowledge, skills and values. In addition, students will understand how businesses use accounting and non-accounting information to make decisions. Through the subject, they will acquire transferrable skills that they can apply in their daily lives.</p>
Component	Duration	Weighting								
Paper 1	1h	40%								
Paper 2	2h	60%								

Subject/ Subject Code/ Assessment	Syllabus												
<p style="text-align: center;"><b>Physics (GCE O Level) [6091]</b></p> <table border="1" data-bbox="144 363 678 604"> <thead> <tr> <th>Component</th> <th>Duration</th> <th>Weightings</th> </tr> </thead> <tbody> <tr> <td>Paper 1 (MCQ)</td> <td>1h</td> <td>30%</td> </tr> <tr> <td>Paper 2 (Structured &amp; Free Response)</td> <td>1h 45m</td> <td>50%</td> </tr> <tr> <td>Paper 3 (Practical)</td> <td>1h 50m</td> <td>20%</td> </tr> </tbody> </table>	Component	Duration	Weightings	Paper 1 (MCQ)	1h	30%	Paper 2 (Structured & Free Response)	1h 45m	50%	Paper 3 (Practical)	1h 50m	20%	<p><u>Physics</u></p> <p>The syllabus aims to provide a worthwhile educational experience for all students, whether or not they go on to study science beyond this level. It develops in students the understanding, and skills relevant to the practices of science, and enable them to appreciate practical applications of Physics in the real world, deepen their interest in Physics for future learning and work, become scientifically literate citizens who can innovate and seize opportunities in the 21st century, use the disciplinary ideas in Physics to approach, analyse and solve problems in the physical world. It also develop in students the values, ethics and attitudes relevant to science such as curiosity, creativity, integrity, objectivity, open-mindedness, resilience, responsibility and healthy skepticism.</p>
Component	Duration	Weightings											
Paper 1 (MCQ)	1h	30%											
Paper 2 (Structured & Free Response)	1h 45m	50%											
Paper 3 (Practical)	1h 50m	20%											
<p style="text-align: center;"><b>Chemistry (GCE O Level) [6092]</b></p> <table border="1" data-bbox="144 663 678 905"> <thead> <tr> <th>Component</th> <th>Duration</th> <th>Weightings</th> </tr> </thead> <tbody> <tr> <td>Paper 1 (MCQ)</td> <td>1h</td> <td>30%</td> </tr> <tr> <td>Paper 2 (Structured &amp; Free Response)</td> <td>1h 45m</td> <td>50%</td> </tr> <tr> <td>Paper 3 (Practical)</td> <td>1h 50m</td> <td>20%</td> </tr> </tbody> </table>	Component	Duration	Weightings	Paper 1 (MCQ)	1h	30%	Paper 2 (Structured & Free Response)	1h 45m	50%	Paper 3 (Practical)	1h 50m	20%	<p><u>Chemistry</u></p> <p>The syllabus aims to provide a worthwhile educational experience for all students, whether or not they go on to study science beyond this level. It develops in students the understanding and skills relevant to the practices of science, and enable them to appreciate practical applications of Chemistry in the real world, deepen their interest in Chemistry for future learning and work, become scientifically literate citizens who can innovate and seize opportunities in the 21st century, develop a way of thinking to approach, analyse and solve problems by explaining macroscopic characteristics and changes in chemical systems through the use of sub-microscopic and symbolic representations. It also develop in students the values, ethics and attitudes relevant to science such as curiosity, creativity, integrity, objectivity, open-mindedness, resilience, responsibility and healthy skepticism.</p>
Component	Duration	Weightings											
Paper 1 (MCQ)	1h	30%											
Paper 2 (Structured & Free Response)	1h 45m	50%											
Paper 3 (Practical)	1h 50m	20%											
<p style="text-align: center;"><b>Biology (GCE O Level) [6093]</b></p> <table border="1" data-bbox="144 961 678 1205"> <thead> <tr> <th>Component</th> <th>Duration</th> <th>Weightings</th> </tr> </thead> <tbody> <tr> <td>Paper 1 (MCQ)</td> <td>1h</td> <td>30%</td> </tr> <tr> <td>Paper 2 (Structured &amp; Free Response)</td> <td>1h 45m</td> <td>50%</td> </tr> <tr> <td>Paper 3 (Practical)</td> <td>1h 50m</td> <td>20%</td> </tr> </tbody> </table>	Component	Duration	Weightings	Paper 1 (MCQ)	1h	30%	Paper 2 (Structured & Free Response)	1h 45m	50%	Paper 3 (Practical)	1h 50m	20%	<p><u>Biology</u></p> <p>The syllabus aims to provide a worthwhile educational experience for all students, whether or not they go on to study science beyond this level. It develop in students the understanding, and skills relevant to the practices of science, and enable them to appreciate practical applications of Biology in the real world, deepen their interest in Biology for future learning and work, become scientifically literate citizens who can innovate and seize opportunities in the 21st century and understand how living organisms work to sustain life and use the disciplinary ideas in Biology to approach, analyse and solve problems in biological systems. It also develop in students the values, ethics and attitudes relevant to science such as curiosity, creativity, integrity, objectivity, open-mindedness, resilience, responsibility and healthy skepticism.</p>
Component	Duration	Weightings											
Paper 1 (MCQ)	1h	30%											
Paper 2 (Structured & Free Response)	1h 45m	50%											
Paper 3 (Practical)	1h 50m	20%											

Subject/ Subject Code/ Assessment			Syllabus
<b>Science (Physics, Chemistry) (GCE O Level) [5086]</b> <b>Science (Chemistry, Biology) (GCE O Level) [5088]</b>			<p><i>Subject description for Physics, Chemistry and Biology is similar to that of the pure sciences.</i></p> <p><u>Science (Physics, Chemistry), Syllabus 5086</u>            Paper 1 will be based on the Physics and Chemistry sections of the syllabus.            Paper 2 will be based on the Physics section of the syllabus.            Paper 3 will be based on the Chemistry section of the syllabus.            Paper 5 will be based on the Physics and Chemistry sections of the syllabus.</p> <p><u>Science (Chemistry, Biology), Syllabus 5088</u>            Paper 1 will be based on the Chemistry and Biology sections of the syllabus.            Paper 3 will be based on the Chemistry section of the syllabus.            Paper 4 will be based on the Biology section of the syllabus.            Paper 5 will be based on the Chemistry and Biology sections of the syllabus.</p>
Component	Duration	Weightings	
Paper 1 (MCQ)	1h	20%	
Paper 2 Structured & Free Response (Physics)	1h 15m	32.5%	
Paper 3 Structured & Free Response (Chemistry)	1h 15m	32.5%	
Paper 4 Structured & Free Response (Biology)	1h 15m	32.5%	
Paper 5 (Practical)	1h 30m	15%	
<b>Science (Physics, Chemistry) (GCE NA Level) [5105]</b> <b>Science (Chemistry, Biology) (GCE NA Level) [5107]</b>			<p><u>Science (Physics, Chemistry), Syllabus 5105</u>            Papers 1, 2, 3, 4</p> <p><u>Science (Chemistry, Biology) Syllabus 5107</u>            Papers 3, 4, 5, 6</p> <p>The pair of Papers 1 and 2, 3 and 4, 5 and 6 will be taken in one session of 1 hour 15 minutes.</p>
Component	Duration	Weightings	
Paper 1 MCQ (Physics)	1h 15m	20%	
Paper 2 Structured (Physics)		30%	
Paper 3 MCQ (Chemistry)	1h 15m	20%	
Paper 4 Structured (Chemistry)		30%	
Paper 5 MCQ (Biology)	1h 15m	20%	
Paper 6 Structured (Biology)		30%	

Subject/ Subject Code/ Assessment	Syllabus																											
<p><b>(Social Studies, Geography) (GCE O Level) [2260]</b>  <b>(Social Studies, Geography) (GCE NA Level) [2125]</b></p> <table border="1" data-bbox="196 499 639 680"> <thead> <tr> <th>Component</th> <th>Duration</th> <th>Weighting</th> </tr> </thead> <tbody> <tr> <td>Paper 1 (Social Studies)</td> <td>1h 45m</td> <td>50%</td> </tr> <tr> <td>Paper 2 (Geography)</td> <td>1h 45m</td> <td>50%</td> </tr> </tbody> </table> <p><b>(Social Studies, History) (GCE O Level) [2261]</b>  <b>(Social Studies, History) (GCE NA Level) [2126]</b></p> <table border="1" data-bbox="196 800 639 980"> <thead> <tr> <th>Component</th> <th>Duration</th> <th>Weighting</th> </tr> </thead> <tbody> <tr> <td>Paper 1 (Social Studies)</td> <td>1h 45m</td> <td>50%</td> </tr> <tr> <td>Paper 2 (History)</td> <td>1h 50m</td> <td>50%</td> </tr> </tbody> </table> <p><b>(Social Studies, Literature in EL) (GCE O Level) [2262]</b>  <b>(Social Studies, Literature in EL) (GCE NA Level) [2127]</b></p> <table border="1" data-bbox="185 1100 651 1245"> <thead> <tr> <th>Component</th> <th>Duration</th> <th>Weighting</th> </tr> </thead> <tbody> <tr> <td>Paper 1 (Social Studies)</td> <td>1h 45m</td> <td>50%</td> </tr> <tr> <td>Paper 2 (Literature in EL)</td> <td>1h 40m</td> <td>50%</td> </tr> </tbody> </table>	Component	Duration	Weighting	Paper 1 (Social Studies)	1h 45m	50%	Paper 2 (Geography)	1h 45m	50%	Component	Duration	Weighting	Paper 1 (Social Studies)	1h 45m	50%	Paper 2 (History)	1h 50m	50%	Component	Duration	Weighting	Paper 1 (Social Studies)	1h 45m	50%	Paper 2 (Literature in EL)	1h 40m	50%	<p><u>Social Studies (Compulsory)</u>  Social Studies seeks to inculcate in students a deeper understanding of the values that define Singapore society, nurture dispositions to inspire them to show concern for the society and the world in which they live and demonstrate empathy in their relationships with others.</p> <p><u>Geography</u>  The syllabus enables students to acquire knowledge and skills to describe, explain and analyse geographical phenomena and processes that occur in Singapore and beyond, examine selected geographical phenomena and processes by analysing data, be aware of different value orientations towards the environment, which influence people’s actions, be imbued with a sense of responsibility towards the environment and be provided with opportunities to discuss solutions and take actions to achieve a more sustainable world.</p> <p><u>History</u>  The syllabus reflects the value placed on the study of history by seeking to engage students actively in historical inquiry so as to develop them into confident, self-directed, critical and reflective thinkers, enable students to acquire knowledge and understanding of how the past has been interpreted, represented and accorded significance for different reasons and purposes, develop an inquisitive mind in students with the ability to ask relevant questions about the past and examine a range of sources critically in their historical context to reach substantiated judgements about the past, develop in students the ability to organise and communicate their historical knowledge and understanding through a variety of ways using different media, equip them with the necessary historical knowledge, understanding, dispositions and skills to understand the present and contribute actively and responsibly as local and global citizens and inspire them to further study and the pursue their personal interest in the past.</p> <p><u>Literature</u>  The syllabus aims to raise awareness of timeless issues concerning society, promote appreciation of multiple perspectives and build empathy and global awareness among students. It also seeks to inculcate the habit of close reading, promote heightened appreciation of nuances of language and sensitize students to artistic decisions made by writers. Students cultivate metacognitive habits of mind as they pay attention to the impact of language on one’s thoughts and feelings, develop greater acceptance for ambiguity and open-endedness. They are also equipped with the skills to convince others of their interpretations, based on sound reasoning.</p>
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<p><b>Design &amp; Technology (GCE O Level) [7059]</b></p> <table border="1" data-bbox="190 285 634 495"> <thead> <tr> <th>Component</th> <th>Duration</th> <th>Weighting</th> </tr> </thead> <tbody> <tr> <td>Paper 1 (Written Exam)</td> <td>2h</td> <td>40%</td> </tr> <tr> <td>Paper 2 (Design Project)</td> <td>22 weeks</td> <td>60%</td> </tr> </tbody> </table> <p><b>Design &amp; Technology (GCE NA Level) [7055]</b></p> <table border="1" data-bbox="190 554 634 764"> <thead> <tr> <th>Component</th> <th>Duration</th> <th>Weighting</th> </tr> </thead> <tbody> <tr> <td>Paper 1 (Written Exam)</td> <td>1h 30m</td> <td>40%</td> </tr> <tr> <td>Paper 2 (Design Project)</td> <td>20 weeks</td> <td>60%</td> </tr> </tbody> </table> <p><b>Design &amp; Technology (GCE NT Level) [7062]</b></p> <table border="1" data-bbox="190 823 634 1033"> <thead> <tr> <th>Component</th> <th>Duration</th> <th>Weighting</th> </tr> </thead> <tbody> <tr> <td>Paper 1 (Written Exam)</td> <td>1h</td> <td>30%</td> </tr> <tr> <td>Paper 2 (Design Project)</td> <td>20 weeks</td> <td>70%</td> </tr> </tbody> </table>	Component	Duration	Weighting	Paper 1 (Written Exam)	2h	40%	Paper 2 (Design Project)	22 weeks	60%	Component	Duration	Weighting	Paper 1 (Written Exam)	1h 30m	40%	Paper 2 (Design Project)	20 weeks	60%	Component	Duration	Weighting	Paper 1 (Written Exam)	1h	30%	Paper 2 (Design Project)	20 weeks	70%	<p>The syllabus is designed to engage students in designing and prototyping ideas through applying technology. The students' learning leverages and builds on their experiences in design and technology, and emphasises on understanding everyday activities and creating possibilities to make life better. Through the design process, students cultivate creative, critical and reflective thinking to make sense of their learning and to develop related dispositions and skills using graphical means and technology.</p>
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<p><b>Nutrition &amp; Food Science (GCE O Level) [6097]</b></p> <table border="1" data-bbox="190 1146 634 1329"> <thead> <tr> <th>Component</th> <th>Duration</th> <th>Weighting</th> </tr> </thead> <tbody> <tr> <td>Paper 1 (Written Exam)</td> <td>2h</td> <td>40%</td> </tr> <tr> <td>Paper 2 (Coursework)</td> <td>28h (Jan to Jul)</td> <td>60%</td> </tr> </tbody> </table> <p><b>Nutrition &amp; Food Science (GCE NA Level) [6073]</b></p> <table border="1" data-bbox="190 1388 634 1570"> <thead> <tr> <th>Component</th> <th>Duration</th> <th>Weighting</th> </tr> </thead> <tbody> <tr> <td>Paper 1 (Written Exam)</td> <td>1h 30m</td> <td>40%</td> </tr> <tr> <td>Paper 2 (Coursework)</td> <td>25h (Jan to Jul)</td> <td>60%</td> </tr> </tbody> </table> <p><b>Nutrition &amp; Food Science (GCE NT Level) [5979]</b></p> <table border="1" data-bbox="190 1629 634 1812"> <thead> <tr> <th>Component</th> <th>Duration</th> <th>Weighting</th> </tr> </thead> <tbody> <tr> <td>Paper 1 (Written Exam)</td> <td>1h 30m</td> <td>40%</td> </tr> <tr> <td>Paper 2 (Coursework)</td> <td>35h (Jan to Jul)</td> <td>60%</td> </tr> </tbody> </table>	Component	Duration	Weighting	Paper 1 (Written Exam)	2h	40%	Paper 2 (Coursework)	28h (Jan to Jul)	60%	Component	Duration	Weighting	Paper 1 (Written Exam)	1h 30m	40%	Paper 2 (Coursework)	25h (Jan to Jul)	60%	Component	Duration	Weighting	Paper 1 (Written Exam)	1h 30m	40%	Paper 2 (Coursework)	35h (Jan to Jul)	60%	<p>The syllabus aims to engage students to</p> <ul style="list-style-type: none"> <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>
Component	Duration	Weighting																										
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Subject/ Subject Code/ Assessment	Syllabus																				
<p style="text-align: center;"><b>Art (GCE O Level) [6123]</b></p> <table border="1" data-bbox="188 285 634 558"> <thead> <tr> <th>Component</th> <th>Duration</th> <th>Weighting</th> </tr> </thead> <tbody> <tr> <td>Paper 1 (Coursework)</td> <td></td> <td>60%</td> </tr> <tr> <td>Paper 2 (Drawing &amp; Painting)</td> <td>3h</td> <td rowspan="2">40%</td> </tr> <tr> <td>Paper 3 (study of Visual Arts)</td> <td>2h</td> </tr> </tbody> </table> <p style="text-align: center;"><i>Choice of either Paper 2 or 3.</i></p> <p style="text-align: center;"><b>Art (GCE NA Level) [6125]</b></p> <table border="1" data-bbox="188 642 634 825"> <thead> <tr> <th>Component</th> <th>Duration</th> <th>Weighting</th> </tr> </thead> <tbody> <tr> <td>Paper 1 (Coursework)</td> <td></td> <td>60%</td> </tr> <tr> <td>Paper 2 (Drawing &amp; Painting)</td> <td>3h</td> <td>40%</td> </tr> </tbody> </table>	Component	Duration	Weighting	Paper 1 (Coursework)		60%	Paper 2 (Drawing & Painting)	3h	40%	Paper 3 (study of Visual Arts)	2h	Component	Duration	Weighting	Paper 1 (Coursework)		60%	Paper 2 (Drawing & Painting)	3h	40%	<p>The Art syllabus 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. This document presents the aims, the framework, the learning outcomes, the content and the examination requirements of the Art syllabus.</p>
Component	Duration	Weighting																			
Paper 1 (Coursework)		60%																			
Paper 2 (Drawing & Painting)	3h	40%																			
Paper 3 (study of Visual Arts)	2h																				
Component	Duration	Weighting																			
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Paper 2 (Drawing & Painting)	3h	40%																			
<p><b>Computer Applications (GCE NT Level) [7018]</b></p> <table border="1" data-bbox="188 940 634 1150"> <thead> <tr> <th>Component</th> <th>Duration</th> <th>Weighting</th> </tr> </thead> <tbody> <tr> <td>Paper 1 (Written)</td> <td>1h 15m</td> <td>30%</td> </tr> <tr> <td>Paper 2 (Practical)</td> <td>1h 30m</td> <td>35%</td> </tr> <tr> <td>Paper 3 (Practical)</td> <td>1h 30m</td> <td>35%</td> </tr> </tbody> </table>	Component	Duration	Weighting	Paper 1 (Written)	1h 15m	30%	Paper 2 (Practical)	1h 30m	35%	Paper 3 (Practical)	1h 30m	35%	<p>Through the CPA curriculum, students learn a range of software application, how computer systems and networks work, and basic programming concepts. Students also gain awareness of the ethical, legal and security issues relating to the use of computers.</p>								
Component	Duration	Weighting																			
Paper 1 (Written)	1h 15m	30%																			
Paper 2 (Practical)	1h 30m	35%																			
Paper 3 (Practical)	1h 30m	35%																			
<p><b>Mobile Robotic (GCE NT Level) [A101]</b></p> <table border="1" data-bbox="188 1266 634 1476"> <thead> <tr> <th>Component</th> <th>Duration</th> <th>Weighting</th> </tr> </thead> <tbody> <tr> <td>Paper 1 (Written)</td> <td>1h</td> <td>30%</td> </tr> <tr> <td>Paper 2 (Practical)</td> <td>1h 30m</td> <td>30%</td> </tr> <tr> <td>Paper 3 (Practical)</td> <td>2h</td> <td>40%</td> </tr> </tbody> </table>	Component	Duration	Weighting	Paper 1 (Written)	1h	30%	Paper 2 (Practical)	1h 30m	30%	Paper 3 (Practical)	2h	40%	<p>The syllabus aims to provide students with the experience of developing their own mobile robots and at the same time provide a foundation to further their studies in mechatronics engineering or related fields.</p>								
Component	Duration	Weighting																			
Paper 1 (Written)	1h	30%																			
Paper 2 (Practical)	1h 30m	30%																			
Paper 3 (Practical)	2h	40%																			

*For the latest information on the subjects, please check out the SEAB website.*

## Aggregate Computation for admission to post-secondary institutions

- ❖ The aggregate computation for admission to junior college (JC), Millennia Institute (MI), polytechnic and Institute of Technical Education (ITE) courses are shown below.

L1R5 : For JC Course	
<b>L1</b>	First Language - English/Higher Mother Tongue
<b>R5</b>	Relevant Subject 1 - Humanities/Higher Art/Higher Music/Malay (Special Programme)/Chinese (Special Programme)/Bahasa Indonesia
	Relevant Subject 2 - Mathematics/Science
	Relevant Subject 3 - Humanities/Higher Art/Higher Music/Mathematics/ Science/ Malay (Special Programme)/Chinese (Special Programme)/ Bahasa Indonesia
	Relevant Subject 4 - Any GCE O-Level subjects (except Religious Knowledge)
	Relevant Subject 5 - Any GCE O-Level subjects (except Religious Knowledge)

L1R4 : For MI Course	
<b>L1</b>	First Language - English/Higher Mother Tongue
<b>R4</b>	Relevant Subject 1 - Humanities/Higher Art/Higher Music/Mathematics/ Science/ Malay (Special Programme)/Chinese (Special Programme)/ Bahasa Indonesia
	Relevant Subject 2 - Humanities/Higher Art/Higher Music/Mathematics/ Science/ Malay (Special Programme)/Chinese (Special Programme)/ Bahasa Indonesia
	Relevant Subject 3 - Any GCE O-Level subjects (except Religious Knowledge)
	Relevant Subject 4 - Any GCE O-Level subjects (except Religious Knowledge)

- ❖ *Subject Requirements for Admission to JC and MI*

Subject	Requirement
English Language	A1 to C6
Mother Tongue Language*: Chinese Language, Malay Language, Tamil Language	A1 to D7
<b><u>OR</u></b> Higher Chinese Language, Higher Malay Language, Higher Tamil Language	A1 to E8
<b><u>OR</u></b> Chinese Language 'B' Syllabus (CLB), Malay Language 'B' Syllabus (MLB), Tamil Language 'B' Syllabus (TLB)	Merit or Pass
Mathematics: Mathematics	A1 to D7
<b><u>OR</u></b> Additional Mathematics	A1 to D7

ELR2B2: For Polytechnic Courses				
Course Group	Art & Language-Related Courses	Business-Related Courses	Science & Technology Courses	Design Courses
Aggregate Type	(ELR2B2-A)	(ELR2B2-B)	(ELR2B2-C)	(ELB2B2-D)
<b>EL</b>		English		
<b>R2</b>	1 <sup>st</sup> Group of Relevant Subjects	Art Geography Humanities (Social Studies, Literature in English) Humanities (Social Studies, History) Humanities (Social Studies, Geography) Music	Elementary Mathematics Additional Mathematics	
	2 <sup>nd</sup> Group of Relevant Subjects	Additional Mathematics Art HMTL/MTL Design & Technology Elementary Mathematics Geography Humanities (Social Studies, Literature in English) Humanities (Social Studies, History) Humanities (Social Studies, Geography) Mother Tongue Language Music Nutrition & Food Science Principles of Accounts	Art Geography Humanities (Social Studies, Literature in English) Humanities (Social Studies, History) Humanities (Social Studies, Geography) Music Principles of Accounts	Biology Chemistry Design & Technology Nutrition & Food Science Physics Science (Chem, Bio) Science (Phy, Chem)
<b>B2</b>		Best 2 other subjects		

ELB4, ELR1B3 & ELR2B2: For ITE Higher Nitec Course						
Course Group	Early Childhood/ Beauty & Spa/ Leisure & Travel/ Hospitality Course	Business Courses		Chemical & Life Sciences/ Engineering/ Information Technology Courses		
Aggregate	ELB4-A	ELR1B3-B		ELR2B2-C		
<b>EL</b>		English				
<b>B4</b>	Best 4 other subjects, excluding CCA	<b>R1</b>	Elementary Mathematics Additional Mathematics Principles of Accounts	<b>R2</b>	1 <sup>st</sup> Group of Relevant Subjects	Elementary Mathematics Additional Mathematics
		<b>B3</b>	Best 3 other subjects, excluding CCA		2 <sup>nd</sup> Group of Relevant Subjects	Biology Chemistry Design & Technology Physics Science (Chem, Bio) Science (Phy, Chem)
		<b>B2</b>		Best 2 other subjects, excluding CCA		

## Useful Information on admission to post-secondary institutions

### L1R5 Aggregate Scores (with Bonus Points) of Students Admitted to Junior Colleges in the Previous Year's (2022) JAE

S/No	JC Name	Arts		Science/IB	
		Course Code	Previous (2022) JAE Net L1R5	Course Code	Previous (2022) JAE Net L1R5
1	Anderson Serangoon Junior College	39A	11	39S	10
2	Anglo-Chinese Junior College	22A	9	22S	8
3	Anglo-Chinese School (Independent)	-	-	51I	5
4	Catholic Junior College	23A	13	23S	13
5	Dunman High School	44A	9	44S	8
6	Eunoia Junior College	38A	8	38S	6
7	Hwa Chong Institution	24A	5	24S	4
8	Jurong Pioneer Junior College	40A	16	40S	14
9	Nanyang Junior College	26A	6	26S	5
10	National Junior College	27A	8	27S	7
11	Raffles Institution	28A	5	28S	4
12	River Valley High School	45A	9	45S	8
13	St. Andrew's Junior College	30A	11	30S	9
14	St. Joseph's Institution	-	-	52I	7
15	Tampines Meridian Junior College	41A	13	41S	13
16	Temasek Junior College	32A	9	32S	8
17	Victoria Junior College	33A	8	33S	7
18	Yishun Innova Junior College	42A	19	42S	19

For admission info on planned intakes and ELR2B2 range for 2023 intake to courses at the various polytechnics, please check out the links below

<b>Nanyang Polytechnic</b>	<a href="https://www.nyp.edu.sg/content/dam/nyp/admissions/full-time-diploma/admission-exercise/intake-and-jae-elr2b2-points/intake-and-elr2b2.pdf">https://www.nyp.edu.sg/content/dam/nyp/admissions/full-time-diploma/admission-exercise/intake-and-jae-elr2b2-points/intake-and-elr2b2.pdf</a>
<b>Singapore Polytechnic</b>	<a href="https://www.sp.edu.sg/course-intake-and-jae-elr2b2-range">Course Intake and JAE ELR2B2 Range (sp.edu.sg)</a>
<b>Temasek Polytechnic</b>	<a href="https://www.tp.edu.sg/admissions-and-finance/course-intake-aggregate-range.html">https://www.tp.edu.sg/admissions-and-finance/course-intake-aggregate-range.html</a>
<b>Ngee Ann Polytechnic</b>	<a href="https://www.np.edu.sg/admissions-enrolment/guide-for-prospective-students/elr2b2">https://www.np.edu.sg/admissions-enrolment/guide-for-prospective-students/elr2b2</a>
<b>Republic Polytechnic</b>	<a href="https://www.rp.edu.sg/schools-courses/courses/full-time-diplomas/full-time-diplomas-by-interest-areas-elr2b2">https://www.rp.edu.sg/schools-courses/courses/full-time-diplomas/full-time-diplomas-by-interest-areas-elr2b2</a>

For admission to full-time 3-year Higher Nitec/2 Year Nitec courses, please refer to the link [https://www.ite.edu.sg/docs/default-source/admissions-docs/full-time/entry-requirements/jien/jien-2023-intake-entry-requirements.pdf?sfvrsn=29ec6203\\_2](https://www.ite.edu.sg/docs/default-source/admissions-docs/full-time/entry-requirements/jien/jien-2023-intake-entry-requirements.pdf?sfvrsn=29ec6203_2)

## Frequently Asked Questions

Question: Does my child need to pass English Language to go to junior colleges?

Answer: Yes, a minimum of C6 for EL is required for admission to JCs.

Question: Will offering Combined Science affect the chance of child going to the junior college?

Answer: It will not affect your child's chance of going to the junior college as admission is solely based on L1R5 aggregate score. However do note that different JCs have slightly different subject pre-requisites for choice of subjects.

Question: My child is keen on pursuing a life-science related course in the polytechnic? Is Biology a requirement?

Answer: It is not a requirement to study Biology in order to pursue the life-science course in the polytechnic. Any science subject will do.

Question: Is triple science a requirement if my child is interested to study Medicine in the future?

Answer: It is not a requirement to offer triple science. In fact, the compulsory subject for admission to the Faculty of Medicine at the local university is Chemistry.

Question: What is the minimum number of students to start a class for a subject?

Answer: In general, a class will be opened if a minimum of 10 eligible students opted for the combination

Question: Can a student change their subject combination in the middle of Sec 3?

Answer: Any request for changes to subject combination will NOT be considered before the end of Secondary 3 as students need time to adapt to and cope with the learning of the given subject combination at the upper secondary level.

Question: Can my child still choose a subject combination with Pure Sciences if he did not meet the subject criteria?

Answer: Your child can still opt for the subject combination but the chance of getting the option is lower than those who met the criteria.

Question: If my child is unsuccessful in getting the first choice subject option, will it affect the chance of getting the second choice subject option?

Answer: Subject option allocation is based on merit and hence it will not affect the chance of getting the second choice option if the child is unsuccessful with the first choice subject option.

Question: My child is weak in some of the subjects. Will this affect the chance of getting the preferred choice of subject options?

Answer: The subject option exercise is based primarily on merits, which is the overall performance across all subjects as well as subject-specific criteria for some subjects. These considerations provide an indication on the child's readiness to cope with the rigour of the learning at the upper secondary levels.

Question: Can CCA points be used for admission to JC?

Answer: CCA may be used a bonus point for admission to JC only if they are eligible for JC admission, i.e. attaining L1R5  $\leq$  20.