# Subject Combination Exercise

*For 2025 Sec 2*

# Subject Combination Exercise

- Subject selection is based on **merit and meeting subject(s) specific criteria**

- Timeline

  - Subject Allocation Exercise: 24 Oct – 4 Nov

  - Release of results for Subject Allocation Exercise: 10 Nov

  - Appeal  period: 10 – 12 Nov

  - Release of results for Appeals: 14 Nov

- All Ears Survey Form (**MIMS Log in**)

  - Personalised options displayed based on merit

  - Academic criteria must be met for options to appear

| Students taking at least | POST-SEC PATHWAYS | | | | | |
|---|---|---|---|---|---|---|
| | ITE Year 1 Entry | ITE Year 2 Entry | Polytechnic Foundation Programme (PFP) | Polytechnic Year 1 | Millennia Institute | Junior College |
| 5 G3 subjects | ✓ | ✓ | NEW ✓ | ✓ | ✓ | NEW ✓ |
| 4 G3 + 1 G2 subjects | ✓ | ✓ | NEW ✓ | NEW ✓ | | |
| 5 G2 subjects | ✓ | ✓ | ✓ | | | |
| 4 G1 subjects | ✓ | NEW* ✓ | | | | |

*Students who offer 4 G1 subjects will join Year 1 of Higher Nitec, and may be offered the accelerated pathway if they meet academic requirements during their Year 1 Semester 1 examinations. This pathway will allow them to attain a Higher Nitec in a shorter duration of about two years.

| | 7 subjects (Double Pure Science) | 6 Subjects (More choices for Elective) |
|---|---|---|
| 1st | English Language | |
| 2nd | Mother Tongue Language | |
| 3rd | Mathematics | |
| 4th | Hum (Social Studies, Geography) / Hum (Social Studies, History) / Hum (Social Studies, Malay Literature) | |
| 5th | Chemistry | Sci (Chemistry, Physics) **or** Sci (Chemistry, Biology) |
| 6th | Additional Maths | **Maths:** (G2/3) Additional Maths **Humanities:** Geography / History / Literature **Applied Learning:** (G2/3) Art / (G2/3) Computing / (G2/3) Design & Technology / (G2/3) Nutrition & Food Science / (G2/3) Principles of Accounts |
| 7th | Biology **or** Physics | |

**G3 SC**

# Academic Criteria

- G3 Subjects

| G3 Subject | Prerequisite (S2 Overall) |
|---|---|
| Additional Maths | At least 55 for G3 Maths |
| Pure Sciences (Biology, Chemistry and Physics) | At least 55 for G3 Science |
| Computing* | At least 60 for Sec 2 G3 Maths and at least 65 in Sec 1 G3 Maths |
| Principles of Accounts | At least **45** for G3 Maths |

- **\*Application is closed**

# Available Post-Sec Options for students taking mostly G3 Subjects

- Junior College (At least 5 G3 Subjects)

- Millennia Institute (At least 5 G3 Subjects)

- Poly Year 1 (At least 4 G3 and 1 G2 Subjects)

- Poly Foundation Programme (At least 5 G2 Subjects)

- Year 2 of 3-year Higher NITEC

- Year 1 of 3-year Higher NITEC

# Mother Tongue Language Requirement for JC/MI

- Higher Mother Tongue (Only offered at G3)
  - G3: A1 – E8

- Mother Tongue (Offered at G3, G2, G1)
  - G3: A1 – D7
  - G2: 1 – 5
  - G1: A – D

| 6 Subjects |
|---|
| **1st** English Language |
| **2nd** Mother Tongue Language |
| **3rd** Mathematics |
| **4th** Hum (Social Studies, Geography) **or** Hum (Social Studies, History) |
| **5th** Sci (Chemistry, Physics) **or** Sci (Chemistry, Biology) |
| **6th** **Maths:** G2 Additional Maths<br><br>**Applied Learning:**<br>(G2/3) Art /<br>(G2/3) Design & Technology /<br>(G2/3) Nutrition & Food Science /<br>G2 Computing /<br>G2 Principles of Accounts |

**G2 SC**

# Available Post-Sec Options for students taking mostly G2 Subjects

- Poly Foundation Programme (at least 5 G2)

- Year 2 of 3-year Higher NITEC

- Year 1 of 3-year Higher NITEC

| | 6 subjects | 5 Subjects |
|---|---|---|
| 1st | English Language | |
| 2nd | Mother Tongue Language | |
| 3rd | Mathematics | |
| 4th | Computing | |
| 5th | Science / (G1/G2) Design & Technology / G2 Art / G2 Nutrition & Food Science | |
| 6th | Elements of Business Skills | |

**G1 SC**

# Available Post-Sec Options for students taking mostly G1 Subjects

- Year 2 of 3-year Higher NITEC (at least 4 G1)

- Year 1 of 3-year Higher NITEC (at least 4 G1)

# Academic Criteria

- G2 Subjects

| G2 Subject | Prerequisite (S2 Overall) |
|---|---|
| Additional Maths | G2 Maths: At least 55<br>G3 Maths: At least 50 |
| Computing | G2 Maths: At least 50<br>G3 Maths: At least 45 |
| Principles of Accounts | G2 Maths: At least **45**<br>G3 Maths: At least **40** |

- G1 Subjects

| G1 Subject | Prerequisite (S2 Overall) |
|---|---|
| Elements of Business Skills | G1 English: At least 50<br>G2 English: At least 40 |

# Academic Criteria

- Common Curriculum Subjects

| Subject | G3 | G2 | G1 |
|---|---|---|---|
| Art | At least 70 for Art | At least 60 for Art | |
| Design & Technology | At least 70 for D&T | At least 60 for D&T | At least 50 for D&T |
| Nutrition & Food Science | At least **65** for NFS | At least **55** for NFS | |

# FAQ

- Is A Maths required for Poly Admission

**Answer: No**

**Aggregate Types Computation Criteria**

| Aggregate Type | | ELR2B2 : For Polytechnic Courses | | | |
|---|---|---|---|---|---|
| | | ELR2B2-A | ELR2B2-B | ELR2B2-C | ELR2B2-D |
| EL | | English | | | |
| R2 | 1st Group of Relevant Subjects | Art<br>Business Studies<br>Combined Humanities<br>Economics<br>Geography<br>Higher Art<br>Higher Music<br>History<br>Humanities (Social Studies, Literature in English)<br>Humanities (Social Studies, Literature in Chinese)<br>Humanities (Social Studies, Literature in Malay)<br>Humanities (Social Studies, Literature in Tamil)<br>Humanities (Social Studies, History)<br>Humanities (Social Studies, Geography)<br>Intro to Enterprise Development<br>Literature in English<br>Literature in Chinese<br>Literature in Malay<br>Literature in Tamil<br>Media Studies (English)<br>Media Studies (Chinese)<br>Music | Additional Mathematics<br>Mathematics | | |

# FAQ

- Is Pure Science required for Poly Admission

**Answer: No**

**Aggregate Types Computation Criteria**

| Aggregate Type | ELR2B2 : For Polytechnic Courses | | | |
|---|---|---|---|---|
| | ELR2B2-A | ELR2B2-B | ELR2B2-C | ELR2B2-D |
| 2nd Group of Relevant Subjects | Additional Mathematics<br>Art<br>Business Studies<br>Chinese<br>Combined Humanities<br>Creative 3D Animation<br>Design & Technology<br>Design Studies<br>Economics<br>Food & Nutrition/Nutrition & Food Science<br>Geography<br>Higher Art<br>Higher Chinese<br>Higher Malay<br>Higher Music<br>Higher Tamil<br>History<br>Humanities (Social Studies, Literature in English)<br>Humanities (Social Studies, Literature in Chinese)<br>Humanities (Social Studies, Literature in Malay)<br>Humanities (Social Studies, Literature in Tamil)<br>Humanities (Social Studies, History)<br>Humanities (Social Studies, Geography)<br>Intro to Enterprise Development<br>Literature in English<br>Literature in Chinese<br>Literature in Malay<br>Literature in Tamil<br>Malay<br>Mathematics<br>Media Studies (English)<br>Media Studies (Chinese)<br>Music<br>Principles of Accounts<br>Tamil | Art<br>Business Studies<br>Combined Humanities<br>Economics<br>Geography<br>Higher Art<br>Higher Music<br>History<br>Humanities (Social Studies, Literature in English)<br>Humanities (Social Studies, Literature in Chinese)<br>Humanities (Social Studies, Literature in Malay)<br>Humanities (Social Studies, Literature in Tamil)<br>Humanities (Social Studies, History)<br>Humanities (Social Studies, Geography)<br>Intro to Enterprise Development<br>Literature in English<br>Literature in Chinese<br>Literature in Malay<br>Literature in Tamil<br>Media Studies (English)<br>Media Studies (Chinese)<br>Music<br>Principles of Accounts | Biology<br>Biotechnology<br>Chemistry<br>Computing/Computer Studies<br>Creative 3D Animation<br>Design & Technology<br>Food & Nutrition/Nutrition & Food Science<br>Electronics/Fundamentals of Electronics<br>Exercise & Sports Science<br>Physics<br>Science (Chem, Bio)<br>Science (Phy, Bio)<br>Science (Phy,Chem) | Art<br>Biology<br>Biotechnology<br>Chemistry<br>Computing/Computer Studies<br>Creative 3D Animation<br>Design & Technology<br>Design Studies<br>Food & Nutrition/Nutrition & Food Science<br>Electronics/Fundamentals of Electronics<br>Higher Art<br>Media Studies (English)<br>Media Studies (Chinese)<br>Physics<br>Science (Chem, Bio)<br>Science (Phy, Bio)<br>Science (Phy, Chem) |

# FAQ

- Who should take Pure Science / A Maths?

  **Answer: Students with a strong passion for STEM and a desire to deepen their understanding in these subjects.**

# G2 Computing

## Value of Computing Subjects

**Computer Science:**

Understanding the **field of Computing** and **emerging technologies** such as Artificial Intelligence (AI), and how they transform the way we live.

**Computer as Tools:**

Acquiring **digital literacy and technological skills** to prepare students for the **technology-driven workplace** in the future.
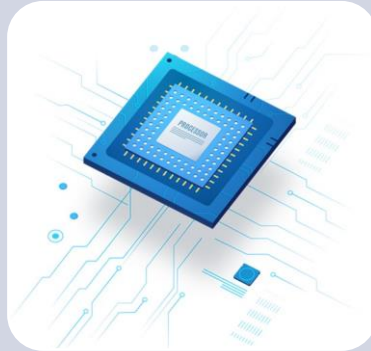
**Computers and Society:**

Understanding the **ethics and societal impacts of technology** and developing important **21st Century competencies** e.g., critical and adaptive thinking skills

# Introducing G1 and G2 Computing Subjects

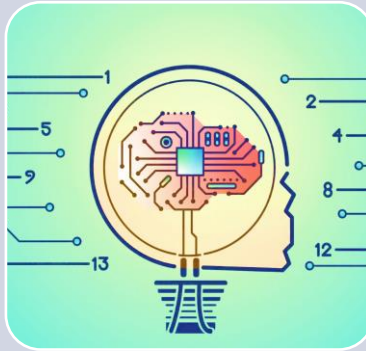Computing is offered at G1 and G2 for Upper Secondary with the following content:

| G1 Computing | G2 Computing |
|---|---|
| 1. Computing Fundamentals<br>2. Networking<br>3. Impact of Computing<br>4. **Document Processing**<br>5. Spreadsheets<br>6. Media Software<br>7. Programming | 1. Computing Fundamentals<br>2. Networking<br>3. Impact of Computing<br>4. **Spreadsheets**<br>5. Media Software<br>6. **Programming** |
| Develops essential skills for work and studies with coverage of software basics, web applications and document processing | Stronger focus on problem-solving skills with coverage of more spreadsheet functions and block-based programming |

# Focus Areas in the Computing Syllabus



## Computing Concepts

- Knowledge and understanding of computer systems, networks, application software and programming

## Computational Thinking & Programming

- Develop computational thinking skills through programming and creating computational artefacts

## Digital Literacy & Software Skills

- Develop digital literacy and media software skills useful for post-secondary education and career.

## Emerging Technology

- Appreciate emerging technologies, cybersecurity and impacts of computing

# Subject Selection

Based On:

- Meeting **eligibility criteria**

- Number of **places available**, which is dependent on the school's resources e.g. the number of available teachers to teach the subject

- **Academic merit** (i.e. overall Sec 2 results)

- Student's **rank order** of choices

- **Demand**: If too few students choose Subject X, Subject X may not be offered to that cohort.

# Overview of Prerequisite

| G3 Subject | Prerequisite |
|---|---|
| Additional Maths | G3 Maths ≥ 55 |
| Pure Sciences (Bio, Chem & Physics) | G3 Science ≥ 55 **and** G3 Maths ≥ 55 |
| Computing (Application Closed) | S2 G3 Maths ≥ 60 **and** S1 G3 Maths ≥ 65 |
| Principles of Accounts | G3 Maths ≥ 45 |

| G2 Subject | Prerequisite |
|---|---|
| Additional Maths | G2 Maths ≥ 55 **or** G3 Maths ≥ 50 |
| Computing | G2 Maths ≥ 50 **or** G3 Maths ≥ 45 |
| Principles of Accounts | G2 Maths ≥ 45 **or** G3 Maths ≥ 40 |

| G1 Subject | Prerequisite |
|---|---|
| EBS | G1 English ≥ 50 **or** G2 English ≥ 40 |

| CMN Subject | G3 | G2 | G1 |
|---|---|---|---|
| Art | Art ≥ 70 | Art ≥ 60 | |
| Design & Technology | D&T ≥ 70 | D&T ≥ 60 | D&T ≥ 50 |
| Nutrition & Food Science | FCE ≥ 65 | FCE ≥ 55 | |

# All Ears Form (Majority G3)

| | 7 subjects (Double Pure Science) | 6 Subjects (More choices for Elective) |
|---|---|---|
| 1st | English Language | |
| 2nd | Mother Tongue Language | |
| 3rd | Mathematics | |
| 4th | Hum (Social Studies, Geography) / Hum (Social Studies, History) / Hum (Social Studies, Malay Literature) | |
| 5th | Chemistry | Sci (Chemistry, Physics) **or** Sci (Chemistry, Biology) |
| 6th | Additional Maths | **Maths:** (G2/3) Additional Maths **Humanities\*:** Geography / History / Literature **Applied Learning:** (G2/3) Art / (G2/3) Computing / (G2/3) Design & Technology / (G2/3) Nutrition & Food Science / (G2/3) Principles of Accounts |
| 7th | Biology **or** Physics | |

G3 EL [61 (B4)]
G3 Maths [58 (C5)]
G3 Sci [63 (B4)]
G3 CL [68 (B3)]
G3 HUM(GEOG) [52 (C6)]
G3 HUM(HIST) [52 (C6)]
G3 HUM(LIT E) [61 (B4)]
CMN ART [58 (DV)]
CMN FCE [45 (BG)]
CMN D&T [79 (PF)]

G3 AM ✓
G3 POA ✓
G3 P. Sci ✓
G3 Com ✗

G3 D&T ✓
G3 Art ✗
G3 NFS ✗

G2 Com ✓
G2 Art ✗
G2 NFS ✗

\*If you choose a second Humanities subject as your 6th subject, it must not be the same as your 4th subject. Example
**Not Allowed**: 4th Subject: Hum (Social Studies, Geography) and 6th Subject: Geography
**Allowed**: 4th Subject: Hum (Social Studies, Geography) and 6th Subject: Literature

# All Ears Form (Majority G3)

**RANKING**

2. For my 4th subject, I wish to take

1st choice: [                    ▼]

2nd choice: [                    ▲]

G3 Hum (Social Studies, Geography)

G3 Hum (Social Studies, History)

**RANKING**

51. For

G2 Computing appears as student did not meet the G3 Computing criteria. G2 POA does not appear as student met the G3 POA criteria.

**RANKING**

49. For my elective(s), I wish to take

1st choice: [                    ▼]

2nd choice: [                    ▼]

3rd choice: [                    ▲]

G3 Geography (6 Subject Combination)

G3 History (6 Subject Combination)

G3 Literature (6 Subject Combination)

G3 Additional Maths (6 Subject Combination)

G3 POA (6 Subject Combination)

G3 D&T (6 Subject Combination)

G3 Pure Sciences AND G3 Additional Maths (7 Subject Combination)

G2 Computing (6 Subject Combination)

**RANKING**

52. For my sciences, I wish to take

1st choice: [                    ▲]

2nd choice:

Chemistry and Biology

Chemistry and Physics

If you are offered the 7 subject combination, these will be 2 G3 Science subjects. In the 6 subject combination this will be 1 combined G3 Science subject.

# All Ears Form (Majority G2)

| | 6 Subjects |
|---|---|
| 1st | English Language |
| 2nd | Mother Tongue Language |
| 3rd | Mathematics |
| 4th | Hum (Social Studies, Geography) **or** Hum (Social Studies, History) |
| 5th | Sci (Chemistry, Physics) **or** Sci (Chemistry, Biology) |
| 6th | **Maths:** G2 Additional Maths<br><br>**Applied Learning:**<br>(G2/3) Art /<br>(G2/3) Design & Technology /<br>(G2/3) Nutrition & Food Science /<br>G2 Computing /<br>G2 Principles of Accounts |

G2 EL [57 (5)]

G2 Maths [44 (6)]

G2 Sci [45 (6)]

G3 CL [52 (C6)]

G2 HUM(GEOG) [41 (6)]

G2 HUM(HIST) [44 (6)]

G2 HUM(LIT E) [61 (4)]

CMN ART [63 (CP)]

CMN FCE [43 (BG)]

CMN D&T [75 (PF)]

G2 AM ✗
G2 POA ✗
G2 Com ✗

G2/3 D&T ✓
G2 Art ✓
G2 NFS ✗

G1 Subjects will not be offered

The first 5 subjects may be offered at a More Demanding Level (MDL) if you have met the academic criteria.

# All Ears Form (Majority G2)

53. For my 4th subject, I wish to take

1st choice: _____

2nd choice: _____

Hum (Social Studies, Geography)

Hum (Social Studies, History)

RANKING

54. For m...

Will be offered at the G3 Level if MDL criteria is met.

RANKING

54. For my elective, I wish to take

1st choice: _____

2nd choice: _____

3rd choice: _____

G2 Art

G2 D&T

G3 D&T

PREVIEW ONLY

She has done well for D&T. Both G2 & G3 will be offered for ranking.

RANKING

52. For my sciences, I wish to take

1st choice: _____

2nd choice: _____

Chemistry and Biology

Chemistry and Physics

This will be 1 combined G2/3 Science subject.

# All Ears Form (Majority G1)

| | 6 subjects | 5 Subjects |
|---|---|---|
| 1st | English Language | |
| 2nd | Mother Tongue Language | |
| 3rd | Mathematics | |
| 4th | Computing | |
| 5th | Science / (G1/G2) Design & Technology / G2 Art / G2 Nutrition & Food Science | |
| 6th | Elements of Business Skills | |

EL, MT, Maths and Science may be offered at a More Demanding Level (MDL) if you have met the academic criteria.

G1 EL [70 (B)]
G1 Maths [67 (C)]
G1 Sci [65 (C)]
G1 BCL [38 (E)]
G1 SS, HEMS [ME / ME]
CMN ART [67 (CP)]
CMN FCE [46 (BG)]
CMN D&T [73 (PF)]

G1 EBS ✓

G1/2 D&T ✓
G2 Art ✓
G2 NFS ✗

Art and NFS are not offered at the G1 Level.

Coursework will be offered at a maximum level of G2.

# All Ears Form (Majority G1)

RANKING

55. For my 5th subject, I wish to take

1st choice:

Science

2nd choice:

G1 D&T

3rd choice:

G2 D&T

G2 Art

MULTIPLE CHOICE

Science be offered at a higher Level if MDL criteria is met

MULTIPLE CHOICE

56. I wish to take G1 EBS as my 6th subject

○ Yes

○ No

He has done well for EL and will be offered G1 EBS as an option