Peirce Secondary School

SECONDARY 2 SUBJECT OPTIONS EXERCISE (SSOE) 2026

INFORMATION BOOKLET
for
Secondary 3 (2027)
For students offering mostly G1 subjects

GENERAL INFORMATION

This booklet provides information on the various elective subjects available for students offering mostly G1 subjects in 2027.

1. Subject Options Exercise is conducted after the release of the end-of-year examination results.
2. Parents whose child is eligible for G2/G3 subject(s) will receive offer letter(s) via Parents Gateway.
3. Students will be briefed about the finalised subject combination in Term 4.

Subjects	Subject Prerequisites
COMPULSORY SUBJECTS	
ENGLISH LANGUAGE	
English Language (EL) at G1	Nil
English Language (EL) at G2	At least a Grade A in Sec 2 G1 EL or Grade 5 in Sec 2 G2 EL
MOTHER TONGUE LANGUAGE	
Mother Tongue Language (MTL) at G1	Nil
Mother Tongue Language (MTL) at G2	At least a Grade A in Sec 2 G1 MTL or Grade 5 in Sec 2 G2 MTL
MATHEMATICS	
Mathematics at G1	Nil
Mathematics at G2	At least a Grade A in Sec 2 G1 Maths or Grade 5 in Sec 2 G2 Maths
COMPUTING at G1	NIL
SCIENCE	
Science at G1	Nil
Science (Physics/ Chemistry) at G2 or Science (Chemistry / Biology) at G2	At least a Grade A in Sec 2 G1 Science or Grade 5 in Sec 2 G2 Science
DESIGN & TECHNOLOGY	
Design & Technology (D&T) at G1	Nil
HUMANITIES	
Social Studies & Geography at G2	At least a Grade 5 for Sec 2 G2 Geography *OR* At least a Grade A for Sec 2 Humanities at G1 & Grade A for Sec 2 G1 EL, with teacher's recommendation
Social Studies & History at G2	At least a Grade 5 for Sec 2 G2 History *OR* At least a Grade A for Sec 2 Humanities at G1 & Grade A for Sec 2 G1 EL, with teacher's recommendation

G1 Subject Combination Options Summary 2027

For students offering mostly G1 subjects					
Subject 1	**Subject 2**	**Subject 3**	**Subject 4**	**Subject 5**	**Subject 6**
EL	MT	Maths	Computing	Science	D&T

Note

1. Subject combination options may be adjusted in Semester 2.

Legend

1. EL – English Language
2. MT – Mother Tongue
3. D&T – Design and Technology

Submission of Option Forms and Release of Subject Options Exercise Results

1. Students offering largely G1 subjects may be invited to take up subject at the more demanding level. Parents are advised to carefully consider their child's choices of subject combinations and complete the option form where appropriate.
2. Results of the Subjects Options Exercise will be released within a few weeks of the exercise.
3. Parents will be able to view their child's allocated subjects via a link to "All Ears" Form, which will require their child to login in using his/her MIMS.
4. Appeals
    - All appeals will be considered **only after** the Subject Options Exercise has been completed and the results, released.
    - These appeals must then be **made via** a link given in "All Ears" Form when they view the results.
    - Appeals will only be considered if they do not contradict the established school policy on subject options.
    - The appeals will be considered on a case-by-case basis.
    - The results of the appeals will only be confirmed and made known to applicants at the end of November. Applicants may check the outcomes of their appeals via the "All Ears" Form.
    - The school's decision will be final, and no further appeals can be made.

School Policy on Subject Options

1. The school reserves the right to decide on the final subject combination offered.
2. The students will be allocated their subject combinations based on the following:
    a. **Subject criteria for specific subjects (Based on the subject's overall results)**
    b. If demand is greater than the number of vacancies, priority will be given based on the following (listed in order of importance):
        i. Order of Choice (First choice will be looked at first)
        ii. Order of Merit (Subject-specific)
        iii. Order of Merit (Overall average for all subjects)
3. Subject Options Committee will accommodate students' requests whenever possible, taking into account students' suitability as well as the need for sufficient demand.
4. Students who are not given any of their preferred subject combinations or do not meet the pre-requisites for any combinations will be allocated subjects based on their strengths.

Design and Technology

Brief Description

Design and Technology (D&T) at the upper secondary level engages students in designing and prototyping solutions to everyday problems using appropriate technology. Through the design process, students explore real-world situations, identify design opportunities, and develop practical solutions that improve aspects of everyday life.

Students apply knowledge of materials, workshop processes, mechanisms, electronics and graphical communication while developing their own design ideas. They learn to research, analyse user needs, generate and develop ideas, test solutions through mock-ups and prototypes, and realise a final design outcome. The design process encourages both rational thinking and creative exploration as students iterate between analysing needs, conceptualising ideas, developing solutions and prototyping.

Through D&T, students cultivate creative, critical and reflective thinking. They learn to exercise judgement and make informed design decisions by considering user needs, functionality, aesthetics, technology and environmental factors. Students also develop dispositions such as curiosity, perseverance and confidence when exploring design opportunities and working through the iterative design process.

In the coursework component, students undertake an individual Design Project where they document their design thinking and development in a Design Journal, supported by sketches, research findings, mock-ups and prototypes. The final design solution is communicated through Presentation Boards and realised as a working prototype or artefact.

Examination Requirements

Coursework (70%): 1 Artefact, 2 Presentation Boards & 1 Design Journal.
Theory (30%): A 1-hour written paper consisting of 2 sections.

Post-Secondary Options

Design and Technology (D&T) provides foundational knowledge for students who wish to pursue engineering or design-related courses. It is recognised as a relevant subject for admission to science-based, technology, and design programmes in local Institutes of Higher Learning.

G1 Computing

Brief Description

The G1 Computing curriculum aims to grow student's interest and competency in basic computing concepts and skills. This will equip students with the necessary foundation to continue with post-secondary computing-related courses in ITE.

The two-year course at the upper secondary levels is to enable students to:
1. Acquire knowledge and understanding of the concepts of computer systems, networks, application software and programming;
2. Develop and apply computational thinking skills such as abstraction and decomposition by creating computational artefacts;
3. Develop and apply media software skills by using application software;
4. Develop an appreciation of computing as a creative field together with an awareness of cybersecurity, emerging technology and the impact of computing;
5. Develop 21CC and attitudes needed to do well in computing including critical, adaptive and inventive thinking, collaboration, communication as well as perseverance in striving for accuracy and thoroughness.

Students will demonstrate understanding of computing and networking concepts, application software and the impact of computing. They will use relevant application software to produce computational solutions in the form of documents, spreadsheets and charts, as well as demonstrate computational thinking through analysing and debugging programs. Students will also apply their skills to create computer graphics, videos and games.

This syllabus comprises seven modules and the units of study for each module are as listed with details below. The study is undertaken at the upper secondary levels for two years.

The seven modules are:

Module 1: Computing Fundamentals
1.1 Components
1.2 Input and Output
1.3 Software

Module 2: Networking
2.1 Concepts
2.2 Cloud Computing

Module 3: Impact of Computing
3.1 Technology
3.2 Responsible Use of Computers

Module 4: Document Processing
4.1 Body Text
4.2 Page properties
4.3 Graphics and text boxes

Module 5: Spreadsheets
5.1 Cell Formats
5.2 Charts
5.3 Formulas
5.4 Functions
5.5 Sorting and Filtering
5.6 Data validation

Module 6: Media Software
6.1 Media Elements
6.2 Vector graphics
6.3 Raster graphics
6.4 Presentations and Videos

Module 7: Programming
7.1 Basics
7.2 Game programming

Examination Requirements

Secondary Education Certificate Examination

Paper 1 Marks: 60 Weightings: 40%	Section A 20 Multiple-Choice-Questions [20 marks] Section B Short Structured Questions [40 marks]	1 hour 15 minutes
Paper 2 Marks: 90 Weightings: 60%	3 Tasks Media Software [~30 marks] Document Processing & Spreadsheets [~35 marks] Programming [~25 marks]	2 hours

Post-Secondary Options

For application to related ITE certificate courses, Computing counts as one of the relevant subjects in the computation of the ITE aggregate score based on the best 4 G1 subjects.

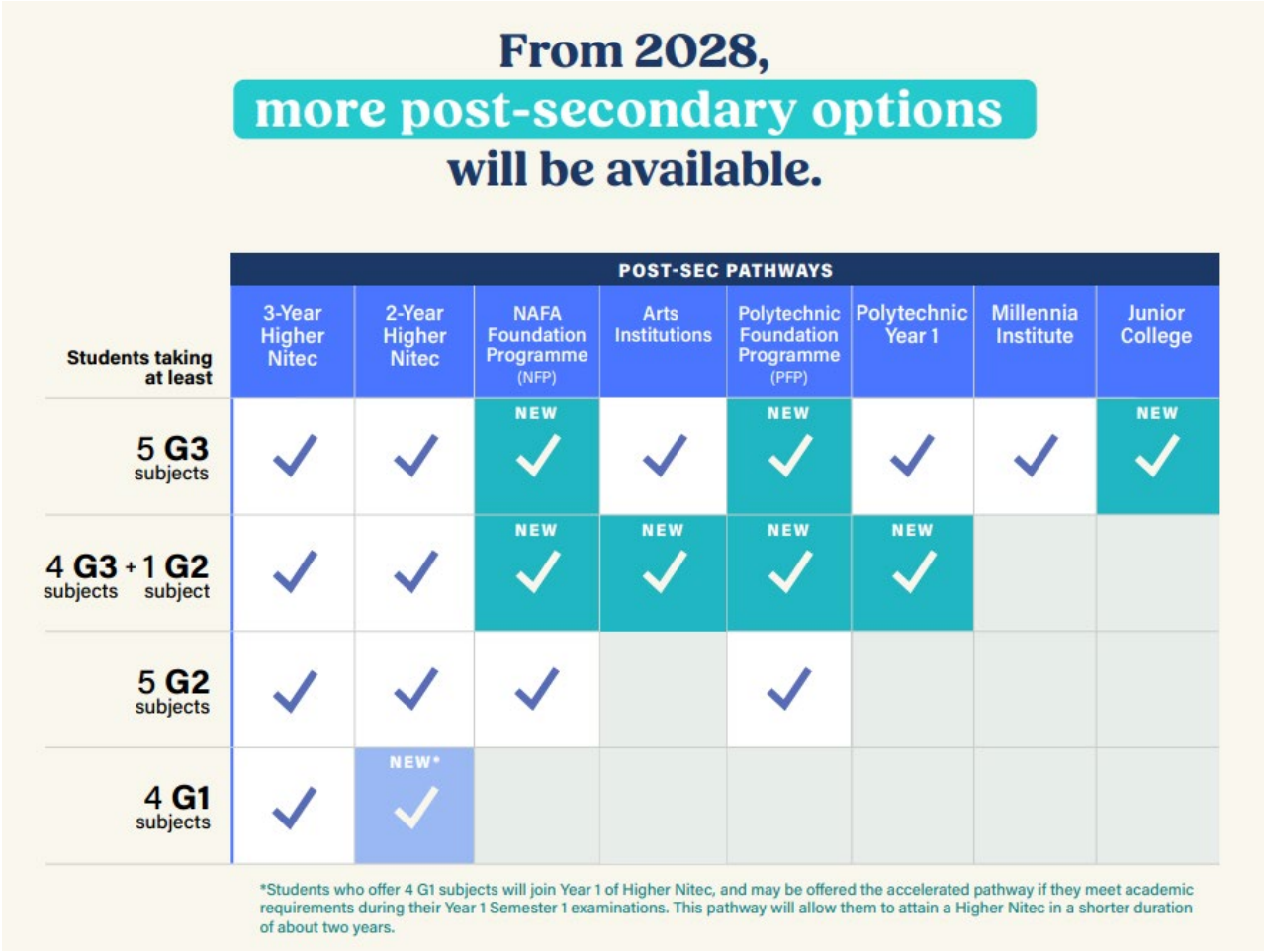
G1 Post-Secondary Education Options

Post-Secondary Pathways under Full Subject-Based Banding (Full SBB)

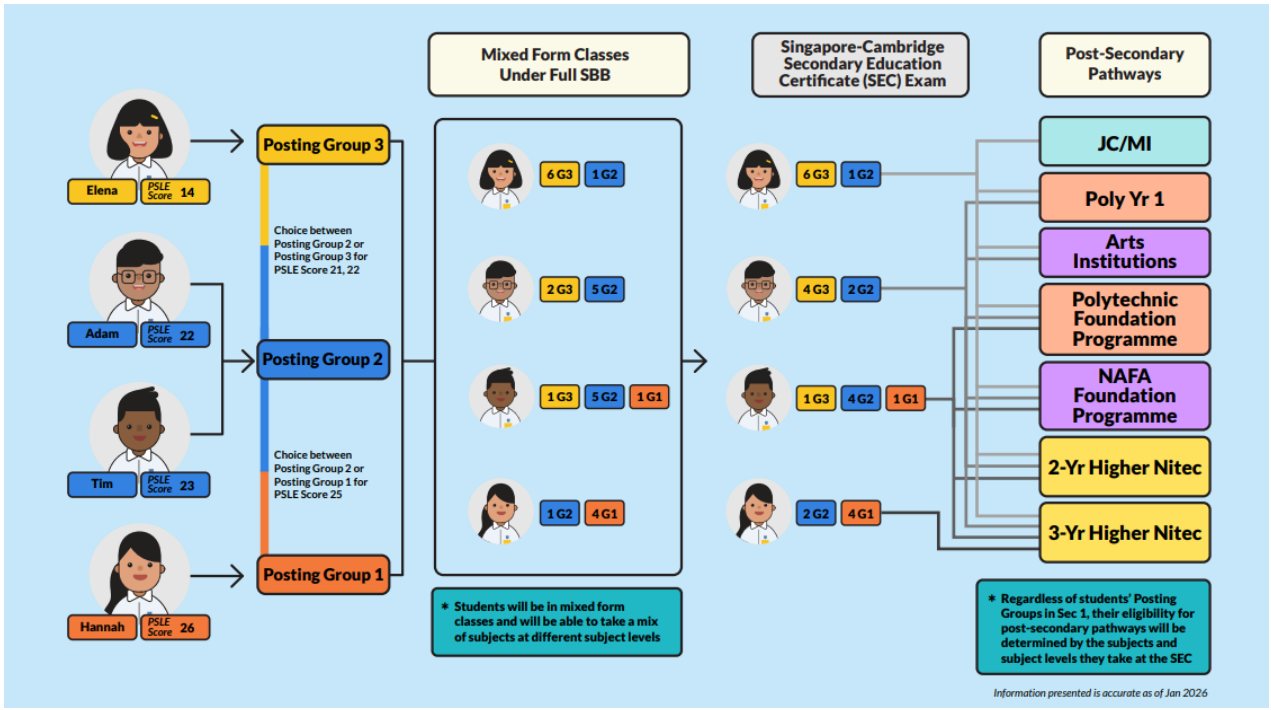
Under the **Full Subject-Based Banding (Full SBB)** system, students may take subjects at different levels, **G1, G2, and G3**, based on their strengths and interests.

A student's **post-secondary pathways will depend on the number and level of subjects they take at the Singapore-Cambridge Secondary Education Certificate (SEC) examination**.

From **2028 onwards**, students will have **more flexible pathways** as the education system recognises different combinations of subject levels.



Post-Secondary Pathways Under Full SBB



Students who take mainly G1 subjects will typically progress to:

• **Year 1 of a 3-Year Higher Nitec programme at the Institute of Technical Education (ITE)**

ITE programmes provide skills-based training and industry-relevant learning experiences that prepare students for employment as well as further education.

Students who perform well may also be offered **accelerated pathways**, allowing them to complete their Higher Nitec qualification in a shorter duration.

Entry to the Institute of Technical Education (ITE)

From the Academic Year 2028 ITE intake, admission requirements for entry to Year 1 of the 3-year Higher Nitec programme will be based on G1 subject levels.

Key features include:

- The ITE aggregate score will be computed based on four G1 subjects.
- Grades obtained from G2 and G3 subjects will be mapped to G1 grades using the grade mapping table.

Students who offer four G1 subjects will therefore be eligible for entry into **Year 1 of a 3-year Higher Nite programme.**

Grade Mapping from G3 to G2 to G1			ITE Aggregate Score
G3	G2	G1	
A1 - B3	1	A	1
B4 - C6	2	A	
D7	3	A	
E8	4	B	2
9	5	C	3
-	6	D	4
-	-	E	5

ITE Early Admissions Exercise (ITE EAE)

The ITE Early Admissions Exercise (ITE EAE) allows students to apply and secure a place in an ITE course before sitting for their national examinations, based on their interests and aptitude.

Key features of the ITE EAE include:

- Applications usually open around May each year.
- Students may apply for up to three Higher Nitec courses.
- Applicants may be assessed through write-ups, interviews, aptitude tests or portfolio submissions.
- Participation in CCAs and school activities can help students demonstrate their interests and strengthen their applications.

Students who receive an offer will be given conditional admission, which will be confirmed if they meet the Minimum Entry Requirements (MER).

Progression Opportunities after Higher Nitec

Students who successfully complete a **Higher Nitec programme** may continue their education through various pathways, including:

- **ITE Work-Study Diplomas**
- **ITE Technical Diplomas**
- **Polytechnic diploma courses**
- **Arts institution diploma programmes**

These pathways allow students to **continue upgrading their qualifications and pursue further education in specialised fields**.

ITE to Polytechnic Progression

From the **Academic Year 2027 polytechnic intake**, Higher Nitec students who achieve a **minimum raw GPA of 3.5** will be **guaranteed admission to a polytechnic diploma course mapped to their ITE programme**.

Students may also apply to other polytechnic diploma courses through the **Early Admissions Exercise (EAE)**.

This progression pathway ensures that students who demonstrate strong performance in ITE have a clear route to **polytechnic education**.

Education and Career Guidance (ECG) Resources

Parents and students can make use of the following resources to explore education and career pathways.

MySkillsFuture Portal

Parents can use the **Education Guide** on the MySkillsFuture portal to help their children explore possible education pathways and plan their next steps after secondary school.

MOE CourseFinder

Students can explore **post-secondary institutions and courses** through the MOE CourseFinder website.

For information on other Institutions:	
ITE Institute of Technical Education	www.ite.edu.sg
SHATEC - The International Hotel and Tourism School	www.shatec.sg