



SEC 3 G3
SUBJECT SELECTION
BRIEFING 2025

OBJECTIVES OF SUBJECT SELECTION BRIEFING

Combinations, Guidelines and Criteria Provided to:

- Develop students' areas of interest / strength;
- Maximise students' potential;
- Match students' aspirations with available and appropriate school resourcing.



**SUBJECT COMBINATIONS FOR
SEC 3 G3 COURSE
IN 2026**



E1A – PURE SCIENCE + ADDITIONAL MATH (7 SUBJECTS)

G3 ENGLISH LANGUAGE

G3 MOTHER TONGUE

G3 MATHEMATICS

G3 ADDITIONAL MATH

G3 PURE CHEMISTRY

Pre-requisites:

- At least 70% (overall) for G3 Science and
- At least 65% (overall) for G3 Math

G3 PURE PHYSICS

or

G3 PURE BIOLOGY

G3 SS +
GEOG

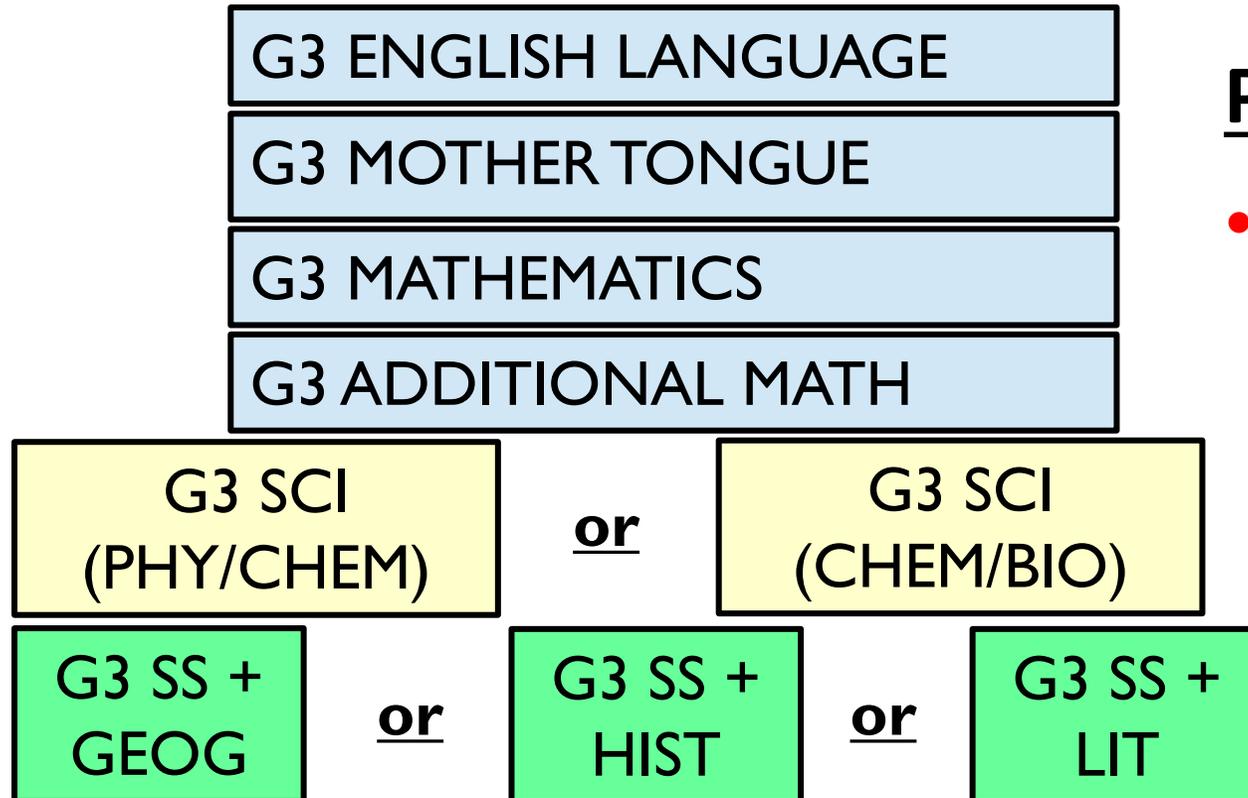
or

G3 SS +
HIST

or

G3 SS +
LIT

E2 – ADDITIONAL MATH (6 SUBJECTS)



Pre-requisites:

- At least 65% (overall) for G3 Math

E3 – PRINCIPLES OF ACCOUNTS (6 SUBJECTS)

G3 ENGLISH LANGUAGE

G3 MOTHER TONGUE

G3 MATHEMATICS

G3 PRINCIPLES OF ACCOUNTS

G3 SCI
(PHY/CHEM)

or

G3 SCI
(CHEM/BIO)

G3 SS +
GEOG

or

G3 SS +
HIST

or

G3 SS +
LIT

Pre-requisites:

- At least 50% (overall) for G3 Math

E4A TO E4D – COURSEWORK / ELECTIVE (6 SUBJECTS)

G3 ENGLISH LANGUAGE

G3 MOTHER TONGUE

G3 MATHEMATICS

G3 SCI
(PHY/CHEM)

or

G3 SCI
(CHEM/BIO)

G3 SS +
GEOG

or

G3 SS +
HIST

or

G3 SS +
LIT

E4A
G3 ART

or

E4B
G3 D&T

or

E4C
G3 NFS

or

E4D
G3 MUSIC

Pre-requisites:

- For E4D (Music): Grade A for Music and satisfy most of the criteria in the audition test

D&T – Design and Technology
NFS – Nutrition and Food Science

Note:

1. Whether your child is given the subject combination he/she chooses will be determined by:
 - **Merit / results** of the student (*how well did you do compared to others?*)
 - **Availability of vacancies** in the subject (*how many classes of this subject will be open?*)
 - **Demand** from students for the subject (*how many students choose this subject?*)

**Consistent hard work
throughout the year is crucial.**



SUBJECTS BRIEFING



MOTHER TONGUE LANGUAGES



COMMON MTL EXAMINATION SITTING FROM 2027

- From 2027, G1/G2/G3 MTL and Higher MTL examinations will be held in **one sitting** in September alongside EL written examinations.
- The non-written examination components i.e. oral, listening comprehension will continue to be held before the start of the written exams.

MTL ADMISSIONS CRITERIA FOR JC/MI

- Grade requirement for MTL for JC/MI admissions:

Any 1 Mother Tongue Language:	Grade
MTL: Chinese, Malay, Tamil	HMTL: 1-8
MTL-in-lieu: Bengali, Gujarati, Hindi, Punjabi, Urdu, French, German, Japanese, Arabic, Burmese, Thai ⁺	MTL/MTL-in-lieu: <ul style="list-style-type: none"> • 1-7 at G3 • 1-5 at G2 • A-D at G1

⁺Bengali, Gujarati, Hindi, Punjabi and Urdu are only offered at G3 and G2, and French, German, Japanese, Arabic, Burmese and Thai are only offered at G3.

- Downward grade mapping provision is not applicable for students to meet the minimum MTL grade requirements for admission to JC/MI.

OFFERING OF H1 MTL AND MTL‘B’ AT PRE-U LEVEL (JC/MI) WITH FULL SBB

- From 2028, with Full SBB, students who had passed G3 MTL will continue to offer H1 MTL at Pre-U level.
- Students who had offered G2 MTL may offer H1 MTL if they are able to cope with demands of the subject, i.e. have scored Grades 1 and 2 at the SEC examinations.
- MTL‘B’ at Pre-U level will be re designed to better cater to students who had offered G1 or G2 MTL.



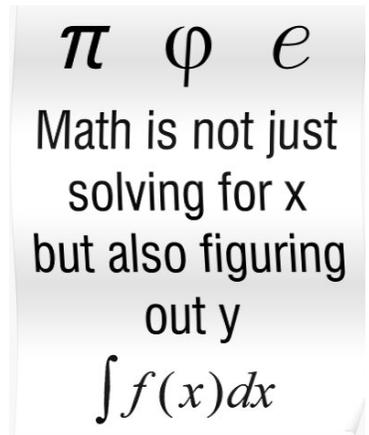
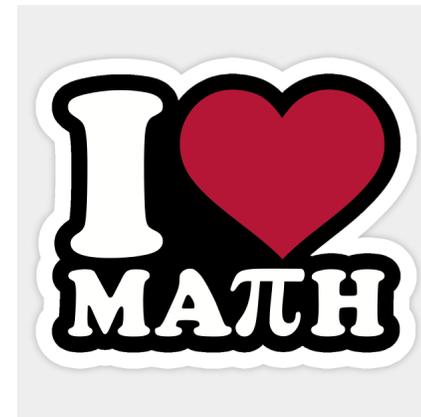
ADDITIONAL MATHEMATICS (A MATH)



THE A MATH SYLLABUS

Aims to enable students who have **higher ability in Math** and a **strong interest** to:

- ✓ Acquire **knowledge and skills** for **higher studies in Math** and support learning in **other subjects, including Science**
- ✓ Develop thinking, reasoning, communication and application in **higher level problem solving**
- ✓ Connect ideas between math and sciences
- ✓ Understand the abstract nature and **power of Math**



HOW IMPORTANT IS ADDITIONAL MATH?

- Additional mathematics lays a strong foundation for advanced studies in courses such as **engineering, physics, computer and data science**. Many higher education courses require a solid understanding of mathematical concepts covered in additional mathematics.
- In JC, **H2 Mathematics assumes knowledge of some of the content from G3 Additional Mathematics**. Students who did not take Additional Mathematics will be expected to take bridging lessons in JC (either through self-directed learning or short lessons).

CONSIDERATIONS

- As students will be **learning Math at a higher level**, they must be prepared to work on **more demanding problems** and exercise resilience and responsibility in completing their assignments.
- Students are expected to **invest twice the amount of time in studying Math** as the content for **Math and Add Math are different**, hence more time required to complete assignments.



O-LEVEL PRINCIPLES OF ACCOUNTS

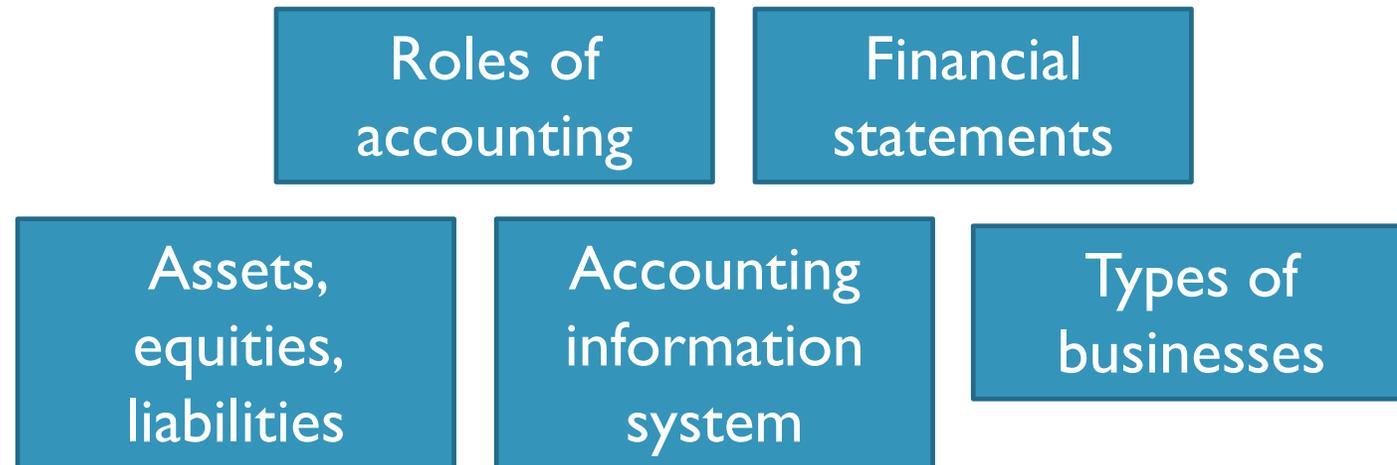


WHAT IS O-LEVEL PRINCIPLES OF ACCOUNTS?

- Students will learn and understand:
 - what business decisions are
 - decisions are made using accounting information
 - the limitations of relying only on accounting information; and
 - the consideration of non-accounting business-related information.

CHOOSING O-LEVEL PRINCIPLES OF ACCOUNTS

- The content of the syllabus covers :



ASSESSMENT MODE

Paper 1 – Written Paper- 40% (1 hr)

3-4 compulsory questions

Paper 2 – Written Paper – 60% (2 hr)

4 compulsory questions

- One question requires the preparation of financial statements for a business for one financial year. (20 marks)
- A scenario-based question (7 marks) will be part of one of the 3 remaining questions.



PURE SCIENCE / COMBINED SCIENCE



PURE SCIENCE VS COMBINED SCIENCE

JUNIOR COLLEGE

1 Pure Science subjects are generally required to qualify for H2 Science subjects at the A Levels. However, students who take combined Science can still enter JCs.

2 More Handling/ Problem Solving Questions

Approximately 55% of the paper has to do with handling information and problem solving

3 Higher Practical Weightage

Practical component takes up 20% of the overall marks

4 More Timetabled Time

10 periods per week for both Pure Science subjects (**6 hours**)

POLYTECHNIC

1 Combined Science subjects will allow students to offer Science courses at the Polytechnics

2 More Knowledge with Understanding/Recall questions

Approximately 50% of the paper is about knowledge with understanding with 20% recall questions

3 Lower Practical Weightage

Practical component takes up 15% of the overall marks

4 Less Timetabled Time

6 periods per week for combined Science (**3.5 hours**)

HOW IMPORTANT IS PURE SCIENCE?

- EXAMPLES OF CRITERIA TO OFFER 4 H2 SUBJECTS IN JC

To offer 4 H2 combination in JCA (2025):

- LIR5 \leq 11 (raw score), **AND**
- Distinction in Additional Mathematics, **AND**
- At least B3 in the relevant pure Science subjects.

To offer 4 H2 combination in JCB (2025):

- LIR5 \leq 12 (raw score), **AND**
- Strong Grades in Additional Mathematics, **AND**
- Strong Grades in the relevant pure Science subjects.

Pure Science is useful for students who wish to offer 4 H2 subject combinations at JC.

Combined Science students may still enter JC using their LIR5 scores, but may only be offered 3 H2 + 1 H1 subject combinations.

HOW IMPORTANT IS PURE SCIENCE?

- EXAMPLES OF CRITERIA TO OFFER H2 CHEM + H2 PHY/BIO IN JC

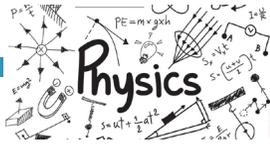
To offer H2 CHEM + H2 PHY/BIO in JC A (2025):

- **For Pure Science students:** At least C6 in Pure Chemistry and Pure Physics / Pure Biology
- **For Combined Science students:** A1 or A2 in Sci (Phy/Chem) or Sci (Chem/Bio)

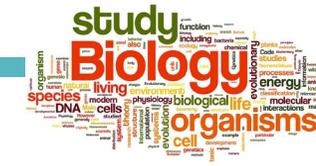
To offer H2 CHEM + H2 PHY/BIO in JC B (2025):

- **For Pure Science students:** At least C6 in Pure Chemistry and Pure Physics / Pure Biology
- **For Combined Science students:** A1 or A2 in Sci (Phy/Chem) or Sci (Chem/Bio)

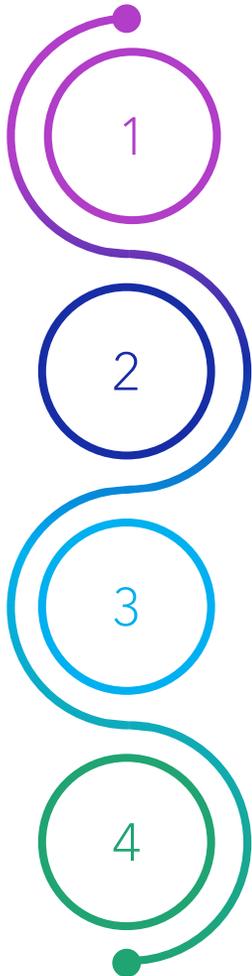
Combined Science students may still enter JC using their LIR5 scores, but will require an A1 or A2 in their Combined Science subject to be offered H2 Chemistry + H2 Physics / Biology.



Physics vs Biology



- Chemistry is a common Science regardless of whether students choose Pure or Combined Science, as it is a pre-requisite for most post-secondary school courses.



Choice does not affect Post-Secondary Pathway @ Polytechnic

Choosing Physics / Biology does not affect your post-Secondary pathways – students who have not taken the Biology can still qualify for Biology related courses at the Polytechnics for example. Students may be required to take bridging courses.

Do not choose Biology just because you do not like Physics/Mathematics

Biology requires much conceptual understanding and recall of information which may not be easier than the calculations for Physics/Mathematics

Consider your personal interests!

Do consider the topics taught for Physics (e.g. Electricity, Waves, Kinematics, Forces) as well as Biology (Plant/Animal transport system, digestive system) to consider the ones you might be more interested in

Consider your aptitude

Students sometimes choose one subject over the other because of their subject teachers at Sec 2. Do consider which subject you are more likely to do better at the O Levels!

WHAT CAN I DO TO SUPPORT MY CHILD?

- Brave the future together with your child by making time to have a conversation about your child's strengths, interests and aspirations.
- Explore aspirations and course choices together by reading up on the syllabi for subjects on SEAB website (www.seab.gov.sg) and also the admissions requirements and course outline for different JC/Poly/ITE courses on CourseFinder (<https://www.moe.gov.sg/coursefinder>)



Thank you!