



SUBJECT SELECTION EXERCISE 2022

OBJECTIVES OF SUBJECT SELECTION EXERCISE

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 EXPRESS COURSE



SUBJECT SELECTION OPTIONS FOR 3E COURSE

Pure Science (7 subjects)	Criteria
<ol style="list-style-type: none">1. English2. Mother Tongue3. Mathematics4. Humanities (SS/ Geo or SS/ HE or SS/ Lit)5. Additional Math6. Pure Chemistry7. Pure Physics or Pure Biology	<ul style="list-style-type: none">• Students must obtain $\geq 65\%$ (overall) for Science and $\geq 60\%$ (overall) for Math to qualify for the Pure Science course.• Students in the Pure Science course will take Additional Math as a compulsory subject.

SUBJECT SELECTION OPTIONS FOR 3E COURSE

Pure Humanities (6 subjects)

1. English
2. Mother Tongue
3. Mathematics
4. Combined Sci (Chem/ Bio) **or** (Chem/ Phy)
5. Pure Geography
6. Humanities (SS/ HE **or** SS/ Lit)

Criteria

- Students must attain $\geq 70\%$ (overall) for Geography to qualify for Pure Geography.
- Pure Geography will only be offered if there is a **minimum number of 15 students** opting and are eligible for the subject.
- Students who opt for Pure Geography, will have to take either SS/HE or SS/Lit as their **second** Humanities subject. **Students will need to pass overall at Sec 2 for the relevant elective chosen (History or Literature).**

SUBJECT SELECTION OPTIONS FOR 3E COURSE

Combined Science (7 subjects)

1. English
2. Mother Tongue
3. Mathematics
4. Humanities (SS/ GE **or** SS/ HE **or** SS/ Lit)
5. Combined Sci (Chem/ Phy)
6. Craft and Tech (DT **or** Art **or** Electronics **or** NFS)
7. Additional Math

Criteria

- Students must obtain $\geq 60\%$ (overall) for Math to qualify for Additional Math/ Electronics.

SUBJECT SELECTION OPTIONS FOR 3E COURSE

Combined Science (6 subjects)	Criteria
<ol style="list-style-type: none">1. English2. Mother Tongue3. Mathematics4. Humanities (SS/GE or SS/ HE or SS/ Lit)5. Combined Sci (Chem/ Bio) or (Chem/ Phy)6. Craft and Tech (DT or Art or Electronics or NFS or EMP)	<ul style="list-style-type: none">• Students must obtain $\geq 60\%$ (overall) for Math to qualify for Electronics.• Students must attain Grade A for Music and satisfy most of the criteria in the audition test to qualify for Enhanced Music Programme (EMP).



SUBJECTS BRIEFING



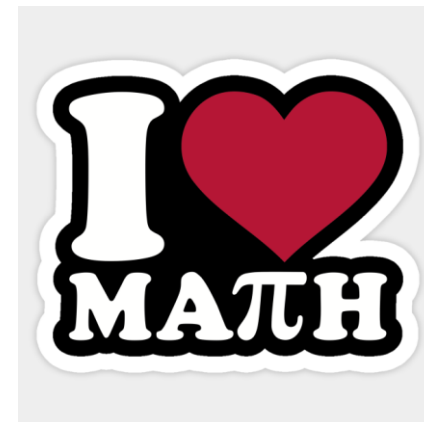
ADDITIONAL MATHEMATICS (A MATH)



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**



π φ e
Math is not just
solving for x
but also figuring
out y
 $\int f(x)dx$

ADVANTAGES OF OFFERING A MATH

- A Math students who **learned the subject well** in secondary school have more skills and knowledge, hence able to cope better at post secondary institutions.

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 **EM and AM are different**, hence more time required to complete assignments.



O-LEVEL ELECTRONICS
(AN MOE APPLIED SUBJECT)



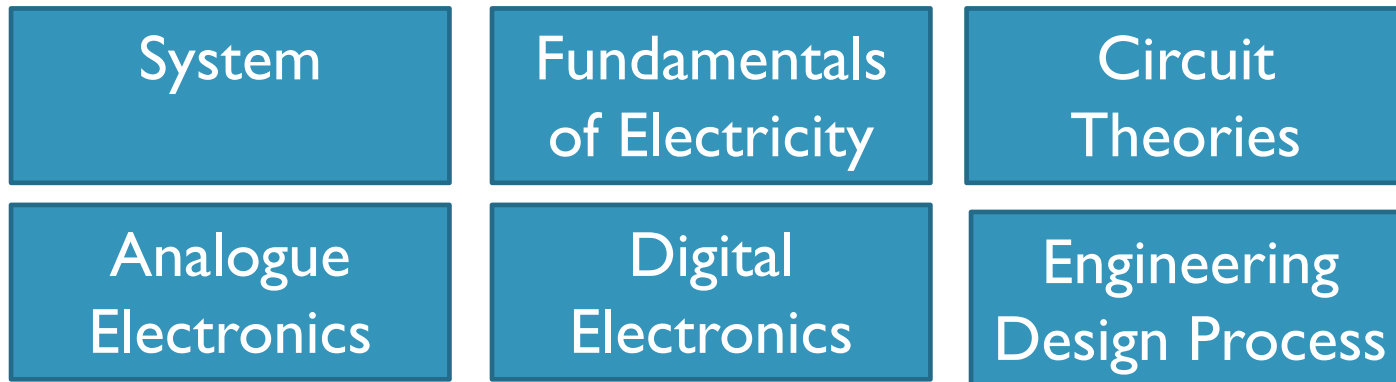
WHAT IS O-LEVEL ELECTRONICS?

- **O-Level Electronics** is an O-level Applied Subject (AS) for upper secondary students.
- As an engineering subject, the subject involves the application of the science of electronics to solve real-world problems.

CHOOSING O-LEVEL ELECTRONICS

Gain knowledge of electronics & build a strong foundation for further study

- The content of the syllabus covers important areas of electronics:



ASSESSMENT MODE

Paper 1 – Written Paper

This written paper consists of two sections.

All questions are compulsory.

- Section A: Six to ten short answer questions
- Section B: Four 15-mark questions

Paper 2 - Coursework

This is an application-specific electronic project which involves the design, building and testing of an electronic circuit to solve a specific problem.

- **Project is carried out over a period of 32 hrs in Secondary 4.**

CERTIFICATION AND PROGRESSION

- For admission to JCs & MI:
 - Could be considered as one of the elective subjects in the computation of LIR5 (as R4 or R5) and LIR4 (as R3 or R4)
- For admission to polytechnics:
 - Depending on the polytechnic course applied for, it could be counted as a relevant subject, or at least a best subject in the computation of ELR2B2
 - Strong candidates for early admission application to polytechnic Electronics and related Engineering courses



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

17 periods per week for 2 Pure Science subject (5 hrs 40 mins)

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

10 periods per week for combined Science (3 hrs 20 mins)



Thank you!