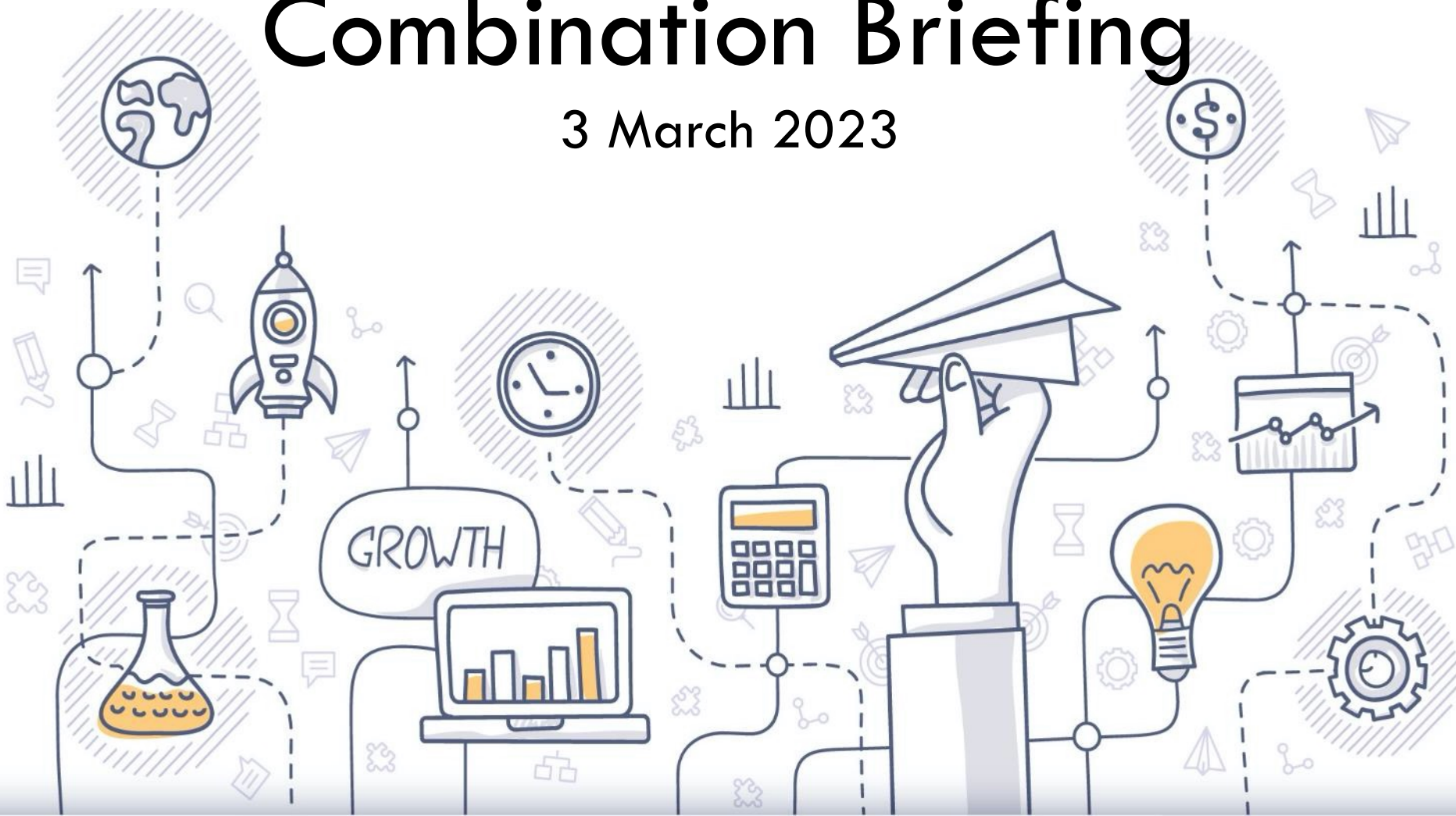


Sec 2 N(A) Subject Combination Briefing

3 March 2023



Overview

Importance of choosing the right subjects

Subject combinations offered

Considerations when exercising your choices

Allocation process

Ways to be better prepared

Importance of choosing the right subjects

End of Sec 4

Affects the type of tertiary education and course of study you are eligible for

End of tertiary education

Affects the interest/
passion/ aspiration / career
you wish to pursue

End of Sec 2

The subjects you choose

Middle of Sec 2

Your academic performance now!



Subject combinations offered in BMSS

All S3 students will offer at least 5 and up to 9 secondary examinable subjects.

NA students generally take 6 subjects.

No	Subjects
1	English Language
2	Mother Tongue
3	Mathematics
4	Choice of combined humanities (choose 1) <ul style="list-style-type: none"> • Humanities (Social Studies, History) • Humanities (Social Studies, Geography) • Humanities (Social Studies, Literature in English)*
5	Choice of science (choose 1) <ul style="list-style-type: none"> • Science (Physics, Chemistry) • Science (Chemistry, Biology)
6	Choice of electives (choose 1) <ul style="list-style-type: none"> • Art • Design & Technology • Nutrition & Food Science • Principles of Accounts • Additional Mathematics*

These subjects are offered at
O level standard for selected
students.

* Subjects with criteria

Subject combinations offered in BMSS



Some of these subjects/combinations are more challenging. Hence, criteria are set to enable each student to succeed based on his/her comparative strengths.

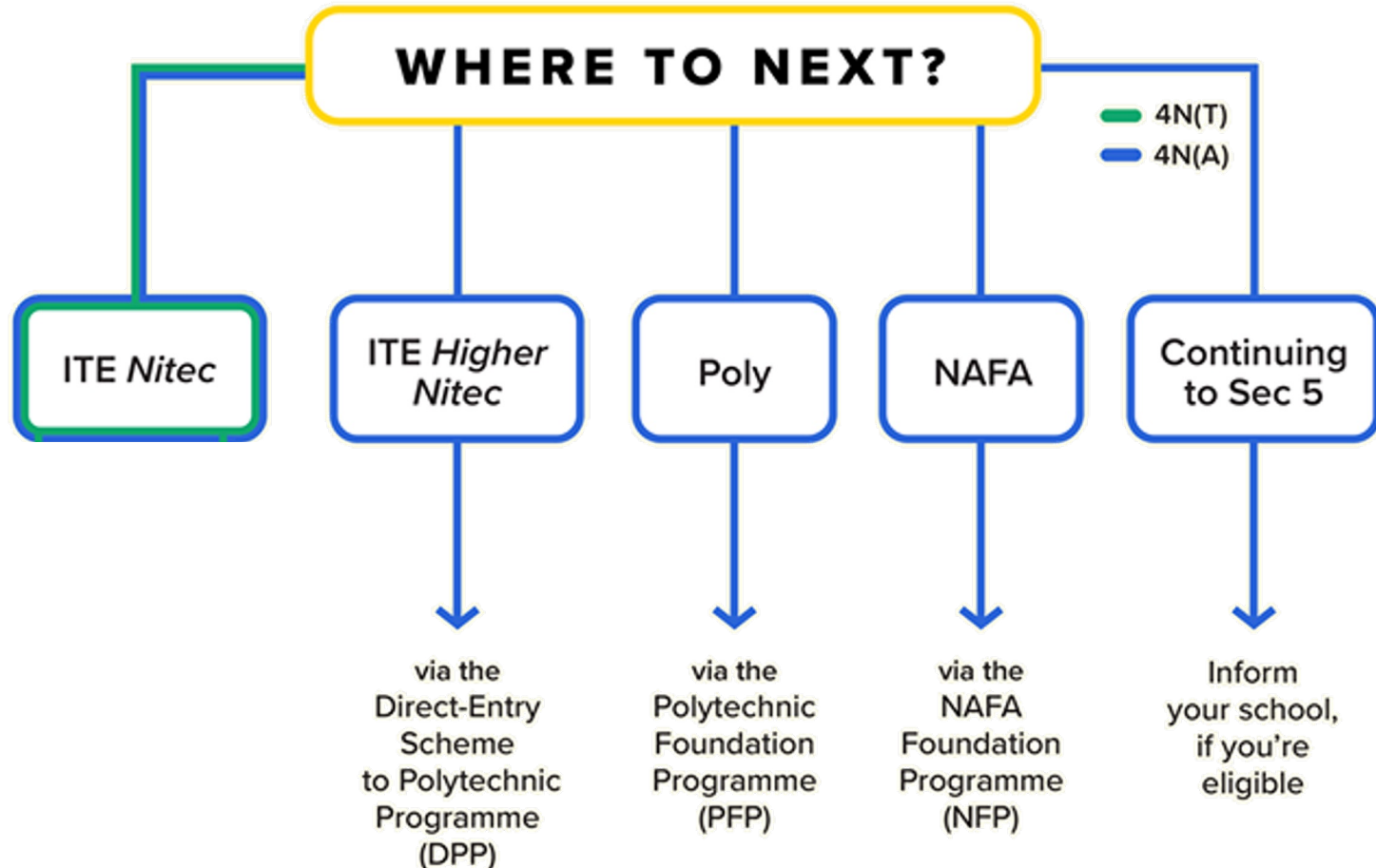
Subject	Criteria (based on Sec 2 overall results)
Additional Mathematics	Maths $\geq 75\%$ AND Algebra component $\geq 75\%$
Humanities (Social Studies, Literature in English)	Literature in English $\geq 65\%$ AND teachers' recommendation

Consideration 1: Interest/passion/aspiration



What do you want to do in future?

Consideration 2: Desired tertiary education & course



Consideration 2: Desired tertiary education & course

PFP (Poly Foundation Program)

- $\text{ELMAB3} \leq 12 \text{ points}$ (excl. CCA)
- Meet course specific requirements
 - ✓ Group 1: $\text{EL} \leq 3, \text{MA} \leq 3, \text{R1} \leq 3$
 - ✓ Group 2: $\text{EL} \leq 2, \text{MA} \leq 3, \text{R1} \leq 3$
- 1-year foundation programme in poly

Sec 5

- $\text{ELMAB3} \leq 19 \text{ points}$ (excl. CCA)
- 1-year to prepare for O'level course

DPP (Direct Poly Program)

- $\text{ELMAB3} \leq 19 \text{ points}$ (excl. CCA)
- Meet course specific requirements
 - ✓ Applied Sciences, Engineering InfoComm: $\text{EL} \leq 4, \text{MA} \leq 4, \text{any } 3 \leq 5$
 - ✓ Business & Services: $\text{EL} \leq 3, \text{MA} \leq 4, \text{any } 3 \leq 5$
- $2\frac{1}{4}$ year in ITE, including 10-week preparatory course
- Guaranteed a place in the 1st Year relevant polytechnic diploma course and may progress to second year in relevant polytechnic diploma course* (if you meet the qualifying GPA for Higher Nitec)

What are your abilities, strengths and weaknesses?

Consideration 2: Desired tertiary education & course

Polytechnic route (PFP)

Many courses require relevant subjects

Some examples of PFP Group 1 courses:

↕ Poly	↕ Course Code	↕ Course Name	↕ Course Group	For Courses featured in Group 1	Minimum Required Grades
SP	S64	Applied Chemistry	GROUP 1	English Language Syllabus A	3
NYP	C62	Advanced and Digital Manufacturing	GROUP 1	Mathematics Syllabus A / Additional Mathematics	3
NYP	C51	Aeronautical & Aerospace Technology	GROUP 1	One of the following relevant subjects: - Design and Technology - Food and Nutrition - Science (Chemistry, Biology) - Science (Physics, Biology) - Science (Physics, Chemistry)	3
SP	S88	Aeronautical Engineering	GROUP 1		
SP	S90	Aerospace Electronics	GROUP 1		
				Any two other subjects excluding CCA	3

What are the requirements for your desired course?

Consideration 2: Desired tertiary education & course

2-year Higher Nitec route (DPP) with 10-week prep

Courses	College	COP (EMB3)		
		2022	2021	2020
APPLIED SCIENCES				
Chemical Technology	CE-SM	7	8	8
ENGINEERING				
Civil & Structural Engineering Design	CE-SM	10	10	9
Electrical Engineering	CE-SM	14	14	14
	CW-CK	14	14	14
Electronics Engineering	CC-AM	13	13	13
	CE-SM	15	15	15
	CW-CK	15	15	15
Mechanical Engineering	CC-AM	11	11	12
	CE-SM	15	14	14
	CW-CK	14	14	14
Mechatronics Engineering	CC-AM	12	12	12
	CW-CK	13	14	14

Popular courses
are competitive

What are your abilities, strengths and weaknesses?

Consideration 2: Desired tertiary education & course

2-year Nitec / 3-year Higher Nitec route

2-Year Nitec Courses by School	Course Code	College Code	2022 JIE 'N' ITE Aggregate Point (based on <u>4 subjects</u>)	Minimum Entry Requirements
APPLIED & HEALTH SCIENCES				
Applied Food Science ②⑦	NFAFZ	CE-SM	8	3 GCE 'N' Passes (Grade A-D or Grade 1-5) in Mathematics or Science*
Chemical Process Technology ②⑦	NFCPZ	CE-SM	12	
Community Care & Social Services ①③⑦	NFCSZ	CE-SM	17	

Nitec courses are competitive

(8 aggregate points means a grade 3 for each NA subject)

In view of the nature of work in the community care and social services sector, a caring attitude and a positive attitude are essential. Shortlisted applicants will be invited for an on-campus scheduled examination.
Wed 28 Dec 2022 at 10:00am

3-Year Higher Nitec Courses by School	Course Code	College Code	2022 JIE 'N' ITE Aggregate Point (based on <u>4 subjects</u>)	Minimum Entry Requirements
BUSINESS & SERVICES				
Accounting ⑦	HF3AC	CC-AM CE-SM CW-CK	3 5 4	3 GCE 'N' Passes (Grade A-D or Grade 1-5) in English Language and two other subjects Or
Sport Management ①⑦ <i>Applicants should possess a strong interest for sports, good communication skills and a service mindset.</i>	HF3SM	CC-AM CE-SM CW-CK	6 13 9	

What are your abilities, strengths and weaknesses?

Consideration 3: Subject readiness

[Content] Humanities



History

- Impact of World War I
- Rise of authoritarian regimes – case study of Nazi Germany
- World War II in Europe and the Asia-Pacific
- Cold War – origin
- Extension of the Cold War outside Europe – case study of the Vietnam War
- End of the Cold War

Geography

- Cluster 1: Geography in Everyday life
- Cluster 4: Tectonics
- Topographical Map Reading Skills
- Geographical Data and Techniques

Literature in English

- Study of a novel (Prose) in the areas of Plot, Character, Theme, Mood and Atmosphere and Style.
- Study of Poetry in the areas of writer's craft, style and effect.
- Study of the construction of sensitive and informed personal responses.

Consideration 3: Subject readiness

[Demand] Humanities

	Social Studies, History	Social Studies, Geography	Social Studies, EL Lit
Exam Format	Paper 1 (50%, 1h 45min) - Social Studies Section A (35m): Source-based case study Section B (15m): 1 structured-response question		
	Paper 2 (50%, 1h 50min) <ul style="list-style-type: none"> Section A (30%) Source-based Case Study Section B (20%) Essay Questions Answer 2 out of 3 questions. 	Paper 2 (50%, 1h 45min) <ul style="list-style-type: none"> Section A (25%) Cluster 1: Geography in Everyday Life [25m] Section B (18%) Cluster 4: Tectonics [18m] 	Paper 2 (50%, 1h 45 min) <ul style="list-style-type: none"> Section A (25%) Prose - Answer 1 question from a choice 1 PBQ and 2 Essay questions. Section B (25%) Unseen Poetry - Answer 1 question from a choice of 2 Unseen poems.
JC	<ul style="list-style-type: none"> Not a pre-requisite for JC subjects 	<ul style="list-style-type: none"> Not a pre-requisite for JC subjects 	<ul style="list-style-type: none"> Not a pre-requisite for JC subjects
Poly (R1/R2)	<ul style="list-style-type: none"> Humanities or Media Business 		

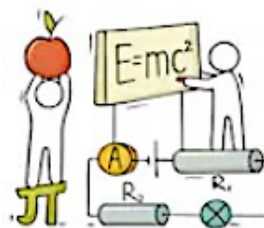
Consideration 3: Subject readiness

[Content] Sciences



Chemistry

- Matter – Structures and Properties
- Chemical Reactions
- Chemistry in a Sustainable World



Physics

- Measurement
- Newtonian mechanics
- Thermal physics
- Waves
- Electricity & magnetism
- Radioactivity

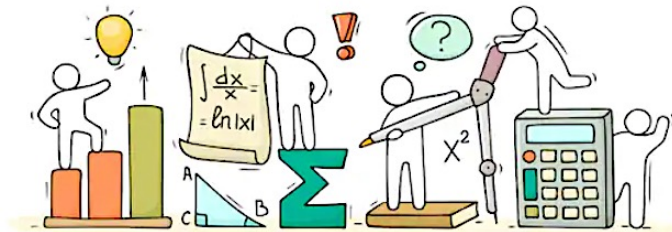


Biology

- Cells and The Chemistry of Life
- The Human Body – Maintaining Life
- Living Together – Plants, Animals and Ecosystems
- Continuity of Life

Consideration 3: Subject readiness

[Content] AMath vs POA



Additional Mathematics

- Three strands:
 - Algebra
 - Geometry and Trigonometry
 - Calculus
- Requires: Conceptual understanding, skill proficiency, reasoning, communication and connections, thinking skills and heuristics, and applications and modelling

Principles of Accounts

- Introduction to financial accounting
- Prepare, communicate and use financial information
- Appreciate the need for ethical conduct.
- Develop lifelong skills and values useful in the increasingly complex world of business.
- Develop decision-making skill in evaluating choices using both accounting and non-accounting information

Consideration 3: Subject readiness

[Demand] AMath vs POA

	Additional Mathematics	Principles of Accounts
Exam Format	<p>Paper 1 (50%, 70m, 1h 45min)</p> <ul style="list-style-type: none"> 13 – 15 Qn <p>Paper 2 (50%, 70m, 1h 45min)</p> <ul style="list-style-type: none"> 8 – 10 Qn 	<p>Paper 1 (40%, 40m, 1h):</p> <p>Structured (3 – 4 Qn)</p> <p>Paper 2 (60%, 60m, 2h):</p> <ul style="list-style-type: none"> Answer 4 compulsory structured questions. (60 marks) One question requires the preparation of financial statements for a business for one financial year. (20 marks) A scenario-based question (5 marks) will be part of one of the 3 remaining questions.
JC	<ul style="list-style-type: none"> May be required for H2 Math 	<ul style="list-style-type: none"> Not a pre-requisite for JC subjects
Poly (R1/R2)	<ul style="list-style-type: none"> Humanities or Media Business Engineering, Science, Facility Management or IT Architecture or design 	<ul style="list-style-type: none"> Humanities or Media Business

Consideration 3: Subject readiness

[Content] Coursework Subjects



Design & Technology

- Design and prototype ideas
- Understand everyday activities and create possibilities to make life better.
- Cultivate creative, critical and reflective thinking
- Develop related dispositions and skills using graphical means and technology

Nutrition & Food Science

- Lead a healthier lifestyle proactively through proper diet and nutrition.
- Advocate sustainable food consumption by planning and making appropriate food choices.
- Apply principles of culinary science creatively in food preparation and cooking.

Art

- Awareness and appreciation of the visual arts
- Identify and solve problems creatively in visual and tactile forms
- Use of art elements and design principles, materials and processes
- Cultivate an inquiring mind, a spirit of experimentation and a passion for the visual art

Consideration 3: Subject readiness

[Demand] Coursework Subjects

	Design & Technology	Nutrition & Food Science	Art
Exam Format	<p>Paper 1 (40%, 60m, 1h30m) Written Paper</p> <p>Paper 2 (60%, 20 weeks) Coursework</p> <ul style="list-style-type: none"> Involves design journal, mock-up(s), presentation boards and prototype 	<p>Paper 1 (40%, 80m, 1h30m) Written Paper</p> <p>Paper 2 (60%, max. 25hrs) Coursework</p> <ul style="list-style-type: none"> Involves task analysis, research & development, decision making, planning, execution and evaluation To present in coursework folio, max. 20 pages 	<p>Paper 1 (60%) Coursework</p> <ul style="list-style-type: none"> Comprise finished artwork and not more than five A2 sheets of preparatory studies <p>Paper 2 (40%, 3h) Drawing and Painting</p> <ul style="list-style-type: none"> Paper to be given three weeks before N Level
JC	<ul style="list-style-type: none"> Not a pre-requisite for JC subjects 	<ul style="list-style-type: none"> Not a pre-requisite for JC subjects 	<ul style="list-style-type: none"> Requirement for H2 Art in some JCs
Poly	<ul style="list-style-type: none"> Humanities or Media Engineering, Science, Facility Management or IT Architecture or design 	<ul style="list-style-type: none"> Humanities or Media Engineering, Science, Facility Management or IT Architecture or design 	<ul style="list-style-type: none"> Humanities or Media Business Architecture or design

Summary

1. Interest/passion/aspiration

- What do you want to do in future?

2. Desired tertiary education & course

- What are your abilities, strengths and weaknesses?
- What are the requirements for your desired course?

3. Subject readiness

- Are you interested in the subject?
- What are the demands for the subject?

Allocation Process



Promotion Criteria

Promoted to 3N(A)	Laterally transferred to 3Express	Laterally transferred to 3N(T) or Retain at 2N(A)
Grade 5 or better in • EL and 2 other subj <u>or</u> • 4 subjects	75% or higher in the average for all subjects (To qualify for consideration)	Has not met minimum attainment level

Allocation Process



- After the End-of-Year Examinations
- A session will be conducted on how to submit your choices

Allocation Process



1. Placement is determined through
 - meeting the **minimum criteria** for certain subjects
 - **professional assessment** by your teachers, including your attitude, strengths and weakness, results and historical trends
2. Subjects which are over-subscribed will be **awarded to students based on results**
3. Subjects will only be offered if a **reasonable number of students** opted for them and there is **available resources**

Allocation Process



- Students and parents will be given 3 days to submit an appeal to the school. Appeals should be supported by good reasons.
- **The school's decision after the appeal is final.**
- **No further changes to subject combination after the appeal phase.**

Ways to be better prepared



1. Identify aspiration and interest early

- Find out your child's aspiration.
- Ask your child to share their experience in class!

2. Review academic performance and goals

- Identify your child's academic strengths and weaknesses.
- Guide them to set realistic goals and put in consistent effort.
- Work with our teachers.

3. Be more informed

- Research on post-secondary courses together with your child.
- Talk to our teachers, ECG counsellor, family/relatives