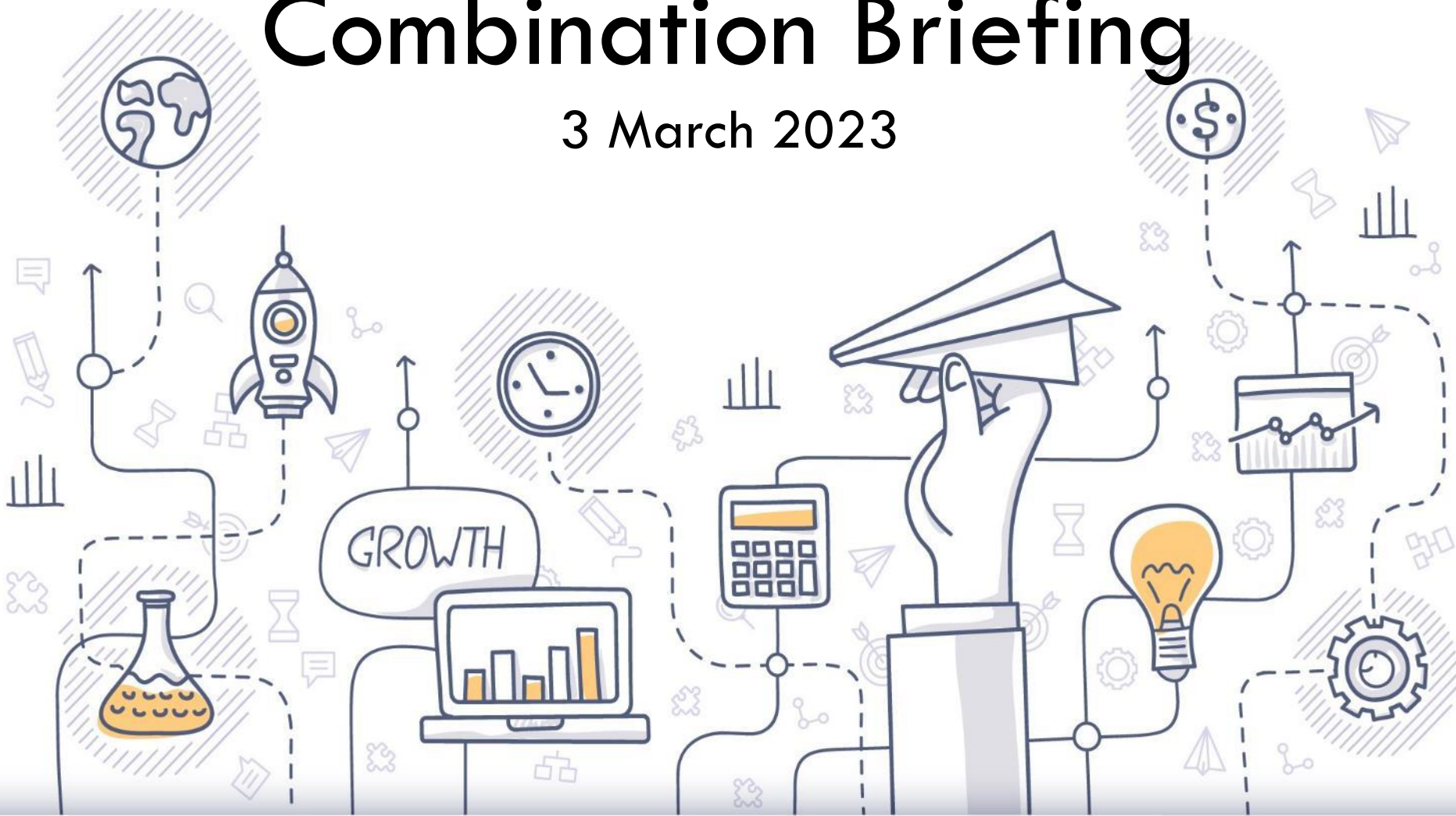


Sec 2 Express Subject Combination Briefing

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.
Express students generally take 7 subjects.

No	Subjects		
1	English Language		
2	Mother Tongue / Higher Mother Tongue		
3	Mathematics		
4	Choice of combined humanities • Humanities (Social Studies, History) • Humanities (Social Studies, Geography) • Humanities (Social Studies, Literature in English)*		
	Option A	Option B	Option C
5	Choice of 2 pure Sciences • Physics* • Chemistry*	Choice of • Physics* and Sci(Chemistry/Biology)	Choice of • Sci(Physics/Chemistry) • Sci(Chemistry/Biology)
6	• Biology*	• Chemistry* and Sci(Physics/Biology) • Biology* and Sci(Physics/Chemistry)	Choice of • Design and Technology • Nutrition and Food Science • Principles of Accounts
7	Choice of • Additional Mathematics* • Principles of Accounts		

* 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.

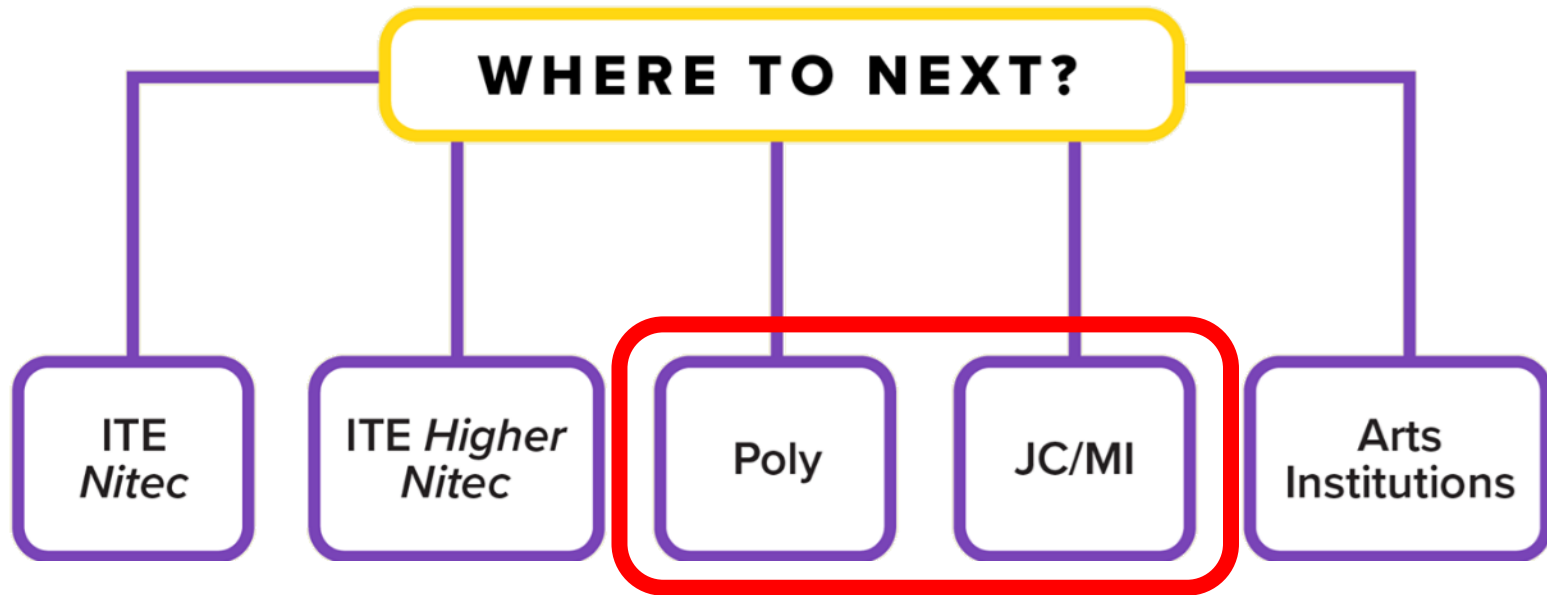
Subject	Criteria (based on Sec 2 overall results)
Two pure Sciences e.g. Physics AND Chemistry	Maths $\geq 70\%$ AND Science $\geq 70\%$ Additional requirement for Biology: English $\geq 65\%$
One pure Sciences e.g. Physics, Chemistry, Biology	Maths $\geq 65\%$ AND Science $\geq 65\%$ Additional requirement for Biology: English $\geq 65\%$
Additional Mathematics	Maths $\geq 65\%$ AND Algebra component $\geq 65\%$
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



Let us focus on these two

Consideration 2: Desired tertiary education & course

JAE Course Types	Aggregate Requirements		
Junior Colleges (2 Years)	English / Higher MT (L1)	5 <u>Relevant</u> Subjects (R5)	6 - 20
Millennia Institute (3 Years)	English / Higher MT (L1)	4 <u>Relevant</u> Subjects (R4)	5 - 20
Polytechnic	English (EL)	2 <u>Relevant</u> Subjects & 2 <u>Best</u> Subjects (R2B2)	26 or better

What are your abilities, strengths and weaknesses?

Consideration 2: Desired tertiary education & course

Examples of JC cut-off points

S/No	JC Name	Arts		Science/IB	
		Course Code	Previous (2022) JAE Not L1B5	Course Code	Previous (2022) JAE Not L1B5
1	Anderson Serangoon Junior College	39A	11	39S	10
2	Anglo-Chinese Junior College	22A	9	22S	8
3	Anglo-Chinese School (Independent)	-	-	51I	5
4	Catholic Junior College	23A	13	23S	13
5	Dunman High School	44A	9	44S	8
6	Eunoia Junior College	38A	8	38S	6
7	Hwa Chong Institution	24A	5	24S	4
8	Jurong Pioneer Junior College	40A	16	40S	14
9	Nanyang Junior College	26A	6	26S	5
10	National Junior College	27A	8	27S	7
11	Raffles Institution	28A	5	28S	4
12	River Valley High School	45A	9	45S	8
13	St. Andrew's Junior College	30A	11	30S	9
14	St. Joseph's Institution	-	-	52I	7
15	Tampines Meridian Junior College	41A	13	41S	13
16	Temasek Junior College	32A	9	32S	8
17	Victoria Junior College	33A	8	33S	7
18	Yishun Innova Junior College	42A	19	42S	19

Examples of cut-off points for some courses in Ngee Ann Poly

Courses	Course Code	Aggregate Type	Net ELR2B2 Range for Previous (2022) JAE
BUSINESS & MANAGEMENT			
Accountancy [With a choice of 1-year JobReady Programme or 1-semester Business Digitalisation Track <u>in the final year</u>]	N51	ELR2B2-B	4 to 11
Arts Business Management	N91	ELR2B2-B	6 to 13
Banking & Finance [With a choice of 1-year JobReady Programme <u>in the final year</u>]	N53	ELR2B2-B	5 to 11

What are your abilities, strengths and weaknesses?

Consideration 2: Desired tertiary education & course



From 2024, students applying for admissions to the polytechnics will generally need to meet **three subject-specific MERs**

In general, the subject-specific MERs will comprise three subjects*:

EL a. English Language

R2 b. Two relevant subjects drawn from the R subject list for the associated course type

** Exceptions may be made in special circumstances, especially for regulated courses with specific requirements*

What are the requirements for your desired course?

Consideration 2: Desired tertiary education & course

For example:

NYP Diploma in Mass Media Management
2020 COP: 5 to 14 points

Type
B

Current MER	
English	C6
Mathematics	C6
Any three other subjects	C6
To be eligible for selection, student must also have sat for one subject listed in the 2nd group of relevant subjects for the ELR2B2-B Aggregate Type.	
5 subject requirements	

New MER from AY2024		
EL	English	C6
R1	Mathematics	C6
R2	Any one of the <u>2nd group of Relevant Subjects</u> for the ELR2B2-B	C6
3 subject requirements		

What are the requirements for your desired course?

Consideration 2: Desired tertiary education & course

		Polytechnic Course Types			
		A	B	C	D
EL		<ul style="list-style-type: none"> English 			
R1		<ul style="list-style-type: none"> Art Combined Humanities 	<ul style="list-style-type: none"> Elementary Mathematics Additional Mathematics 		
R2	E/A Mathematics	✓			
	Combined Humanities	✓	✓		
	Pure Science			✓	✓
	Combined Science			✓	✓
	D&T / NFS	✓		✓	✓
	Art	✓	✓		✓
	Principles of Accounts	✓	✓		
	Mother Tongue	✓			

* Based on subjects offered by BMSS

What are the requirements for your desired course?

Consideration 3: Subject readiness

[Content] Humanities



History

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

Geography

- Cluster 1: Geography in Everyday life
- Cluster 2: Tourism
- 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 (32%) Cluster 1: Geography in Everyday Life [14m] Cluster 2: Tourism [18m] 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 		

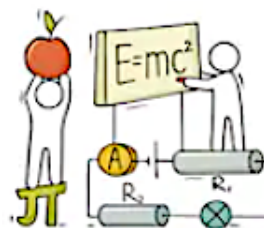
Consideration 3: Subject readiness

[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

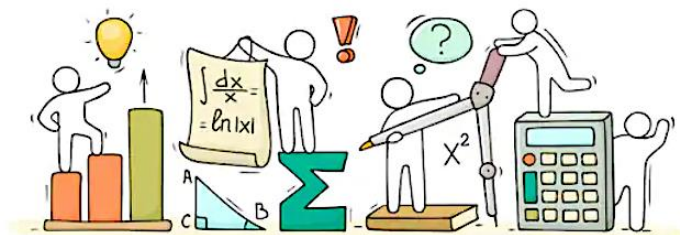
[Demand] Sciences

	Pure Science	Combined Science
Exam Format	<p>Paper 1 (30%, 40m, 1h) Multiple Choice (40 Qn)</p> <p>Paper 2 (50%, 80m, 1h 45min) Structured</p> <ul style="list-style-type: none"> • Section A (70m) • Section B (20m) include a data-based question and a 10-m question (2 choose 1) <p>Paper 3 (20%, 40m, 1h 50min) Practical (variable number of qn) Includes assessment of planning</p>	<p>Paper 1 (20%, 40m, 1h) Multiple Choice (40 Qn)</p> <p>Paper 2/3/4 (32.5%, 65m, 1h 15min) (one for each science) Structured</p> <ul style="list-style-type: none"> • Section A (55 m) • Section B (10 m) (2 choose 1) <p>Paper 5 (15%, 30m, 1 h 30 min) Practical (1 – 2 qn for each Science) Includes suggestion for modification/extension</p>
JC	Requirement for H2 Science	Requirement for H2 Science in place of pure Science for some JCs
Poly (R1/R2)	<ul style="list-style-type: none"> • Engineering, Science, Facility Management or IT • Architecture or design 	

*H2 Chemistry is a requirement for Medicine, Dentistry and Pharmacy in local universities

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%, 90m, 2h 15min)</p> <ul style="list-style-type: none"> 11 – 13 Qn <p>Paper 2 (50%, 90m, 2h 15min)</p> <ul style="list-style-type: none"> 9 – 11 Qn 	<p>Paper 1 (40%, 40m, 1h): Structured (3 – 4 Qn)</p> <p>Paper 2 (60%, 60m, 2h): Answer 4 compulsory structured questions.</p> <ul style="list-style-type: none"> 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.
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.

Consideration 3: Subject readiness

[Demand] Coursework Subjects

	Design & Technology	Nutrition & Food Science
Exam Format	<p>Paper 1 (40%, 80m, 2h) Written Paper</p> <p>Paper 2 (60%, 22 weeks) Coursework</p> <ul style="list-style-type: none"> Involves design journal, mock-up(s), presentation boards and prototype 	<p>Paper 1 (40%, 100m, 2h) Written Paper</p> <p>Paper 2 (60%, max. 28hrs) 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. 25 pages
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
Poly (R1/R2)	<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

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 3E	Laterally transferred to 3N(A)
<ul style="list-style-type: none">• Pass EL <u>AND</u>• Overall pass in average of other subjects	<ul style="list-style-type: none">• Does not meet promotion criteria• No retention in 2E

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