



Subject Combinations for Secondary 3 2022

Mrs Norain Johari
HOD Science





Sec 2 Streaming Exercise

Considerations

Selecting subjects
based on

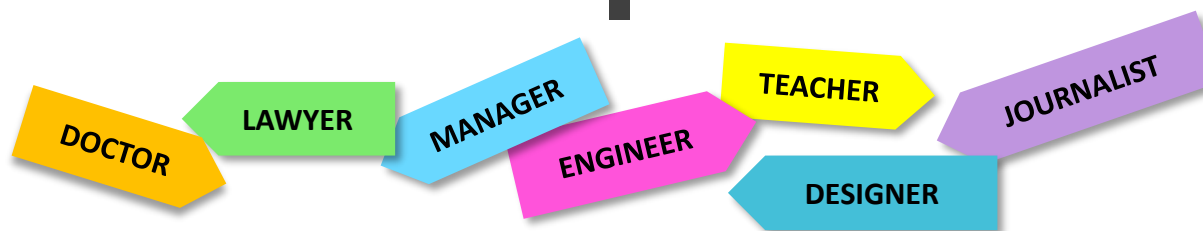
Interest,
Aptitude,
Strength

JC, Pre-U, Poly or ITE?

A Level, Diploma,
Higher Nitec, Nitec

Career

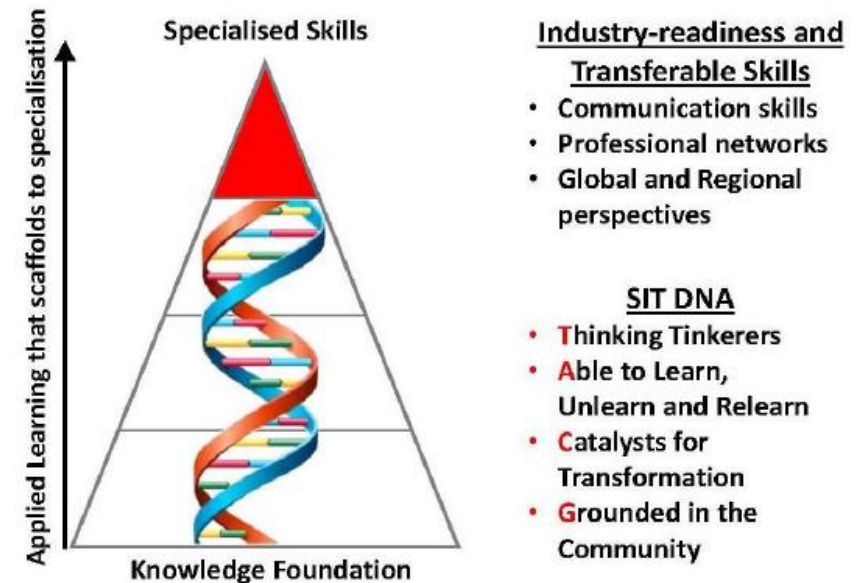
Career Aspirations &
Job of the Future



Future Skills in Post-Secondary Study and Work

DBS Partners AWS To Future-Proof Employees With AI & Machine Learning Skills

by Fintechnews Singapore / August 18, 2020

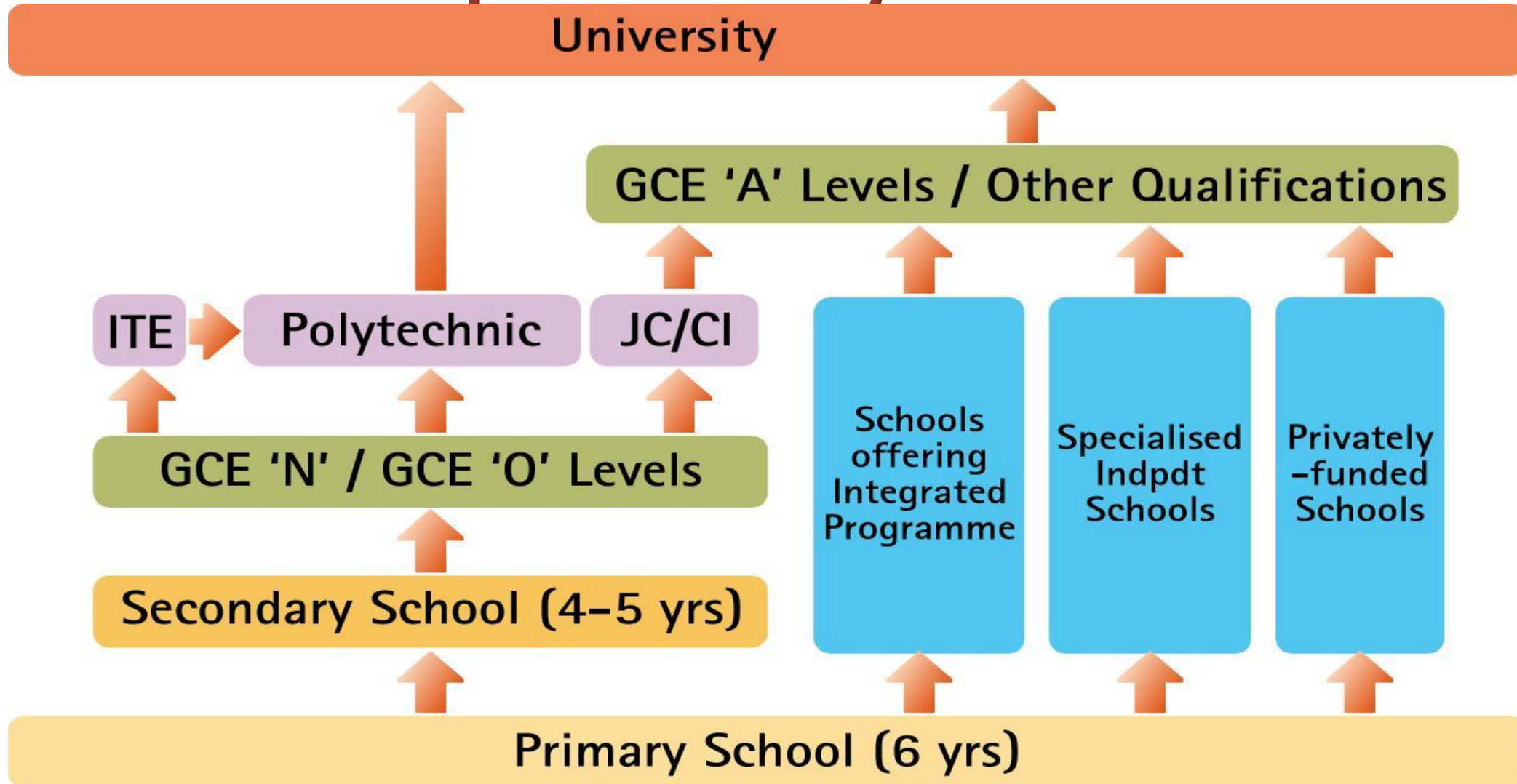


Singapore Institute of Technology DNA





Multiple Pathways in Education





What are the various Post-Secondary School options available?

3 MAIN TYPES OF OPTIONS

1. Junior Colleges (JCs) or Millennia Institute

Prepares students for the GCE
'A' level examination



3. Institute of Technical Education (ITE)

Equips students with technical
knowledge and skills relevant to the
industry.

2. Polytechnics / LaSalle / NAFA

Trains students with relevant skills for the
workplace in a knowledge-based economy.





**FOR STUDENTS ON O-LEVEL COURSE
[SEC 4 EXPRESS & SEC 5 NORMAL (ACADEMIC)]**

Aggregate computation

- JC: **L1R5** (Target: 6 Very Good & Good Passes in relevant subjects including EL, Humanities, Maths, Science)
- MI: **L1R4** (Target: 5 Good Passes incl. EL, Humanities, Maths, Science)
- Polytechnic: **ELR2B2** (Target: 5 Very Good and Good Passes including EL, Maths (except Humanities courses, where Maths needs not be included))
- ITE: **ELB4, ELR1B3** or **ELR2B2** (Target: 5 Passes)

Legend:

L1 = English or Higher Mother Tongue

R5 = 5 Relevant subjects

EL = English Language

B2 = 2 Best subjects

Legend:

Very Good Passes: A1-A2

Good Passes: B3-B4





Bonus Points for computation of net aggregate scores

1) **CCA** Attainment

Excellent: 2 points

Good: 1 point

(For admission to JC/Poly/ITE)

2) Pass in **English and Higher Mother Tongue**

3) Pass in **Malay/Chinese (Special programme) or Bahasa Indonesia (BI) as 3rd Language**

5) Students who apply for and are accepted into **Chinese, Malay or Tamil LEP**

2 points

4) **Affiliation to JC**

For students from feeder schools if they **choose their affiliated JC course(s)** as

- a) 1st choice or
 - b) 1st and 2nd choices
- 2 points

2 points for admission to **JC/MI courses, provided**
these choices come **before** any Poly/ITE courses

*Limited to maximum of 4 bonus points only for sections (1)-(4).
Limited to maximum of 6 bonus points only for sections (1)-(5).*



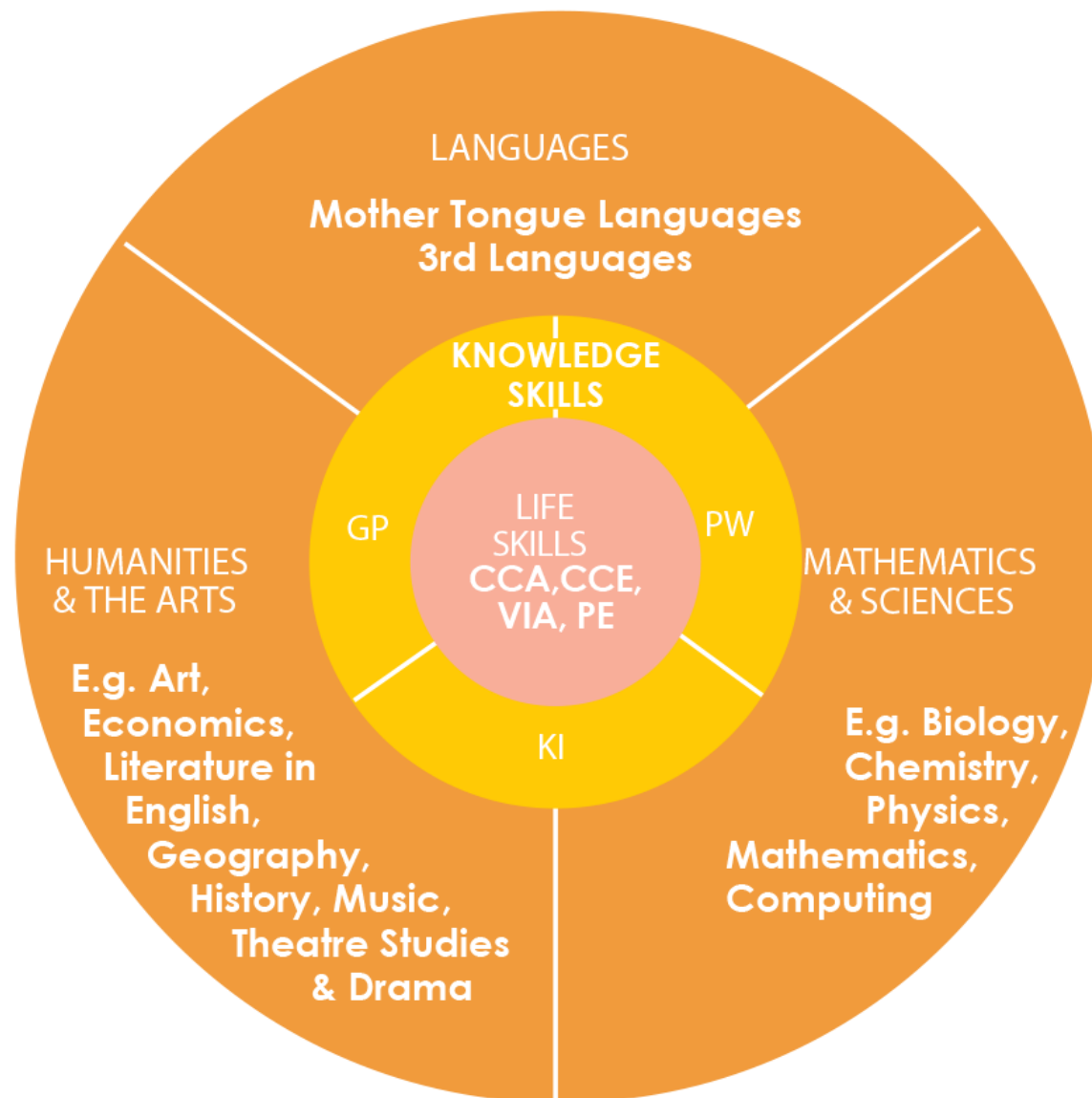


A-LEVEL PATH





A Level Curriculum





What does one study at the A-Level?

Select subjects from **three** levels of study:

H1	H2	H3
Half of H2 in terms of curriculum time	Equivalent to 'A' level subjects prior to 2006	Subjects with opportunity for in-depth study (e.g. advanced content, research paper, university module)

Usual subject combination: 3H2s + 1H1 (requires 1 contrasting subject)





Admission Criteria to JC

- Eligibility Criteria
 - **JC: $L1R5 \leq 20$**
 - Requirements on Core Subjects
 - English Language: A1- C6
 - Mother Tongue: A1- D7
 - Mathematics: A1- D7
- L1 : English/Higher Mother Tongue
 - R1 : Humanities
 - R2 : Maths/Science
 - R3 : Humanities/Maths/Science
 - R4 & R5 : Best 2 other subjects





Admission Criteria to MI

- Eligibility Criteria
 - **MI: $L1R4 \leq 20$**
 - Requirements on Core Subjects
 - EL: A1- C6
 - MT: A1- D7
 - Mathematics: A1- D7
- L1 : English/Higher Mother Tongue
 - R1 : Humanities/Maths/Science
 - R2 : Humanities/Maths/Science
 - R3 & R4 : Best 2 other subjects





POLYTECHNIC PATH





How to get into a Poly/LaSalle/NAFA?

2 possible ways
(post GCE O-Level results)



JOINT
ADMISSIONS
EXERCISE 2020
INFORMATION BOOKLET

For Candidates Seeking Admission to:

Junior Colleges
Millennia Institute
Polytechnics
Institute of Technical Education



Ministry of Education
SINGAPORE

Using O-Level results
– Joint Polytechnic
Admissions Exercise
(**JAЕ**)

Through Direct
Admissions Exercise
(**DAЕ**)

To find out more about the different Polytechnic admission exercises, please refer to the “Guide to Polytechnic Education” at www.polytechnic.edu.sg





ELR2B2 (A)

Humanities & Mass Communication Courses

- L1: English
- R1: Art/Humanities
- R2: Mathematics/Mother Tongue/Humanities/Design & Technology/Food & Nutrition/Principle of Accounts
- B1 & B2: Best 2 other subjects excluding CCA





ELR2B2 (B)

Business-Related Courses

- L1: English
- R1: Mathematics
- R2: Art/Humanities/Principles of Accounts
- B1 & B2: Best 2 other subjects excluding CCA





ELR2B2 (C)

Applied Science, Technology & Engineering Courses

- L1: English
- R1: Mathematics
- R2: Science/Design & Technology/Food & Nutrition
- B1 & B2: Best 2 other subjects excluding CCA





ELR2B2 (D)

Design Courses

- L1: English
- R1: Mathematics
- R2: Science/Art/Design & Technology/Food & Nutrition
- B1 & B2: Best 2 other subjects excluding CCA





3 EXPRESS Subject Combinations in 2022





Sec 3 Express (Subjects)

L - LANGUAGE	SCIENCE		MA - MATHEMATICS	H - HUMANITIES	C - COURSEWORK
	PS - Pure Science	SC - Combined Science			
1. *English 2. *Mother Tongue	1. Biology 2. Chemistry 3. Physics	1. Sci (Biology, Chemistry) 2. Sci (Physics, Chemistry)	1. *Mathematics (E Maths) 2. Additional Mathematics (A Maths) 3. Computing 4. Principle of Accounts (POA)	1. *Humanities (Social Studies & Geography/History/Literature) 2. Geography 3. Literature	1. Art 2. Design & Technology (DT) 3. Food & Nutrition (FN)
*Compulsory Subject <i>Students are required to select a different Humanities elective if Geography/Literature is offered.</i> <i>Students are required to select a different Combined Science component if Biology/Physics is offered.</i>					

Note: Final subjects offered in 2022 will be subjected to change due to demand and availability of resources.





Sec 3 Express Subject Combinations in 2022

Points of Discussion:

1. Total Number of Subjects

- 7 Subjects (option 1 and 2)
- 8 or 9 Subjects (option 3 and 4)

2. Type of Subject Combinations

- Triple Pure Science (combination 1 and 2)
- Double Pure Science (combination 3, 4 and 5)
- 1 Pure Science and 1 Combined Science (combination 6 and 7)
- 1 Combined Science (combination 8, 9, 10 and 11)





Sec 3 Express Subject Combinations in 2022 (7 Subjects)

SUBJECT	OPTION 1 [1 Combined Science]	OPTION 2 [2 Pure Science]
1	English Language	English Language
2	Mother Tongue	Mother Tongue
3	E Maths	E Maths
4	(SS, Geography) or (SS, History) or (SS, Lit)	(SS, Geography) or (SS, History) or (SS, Lit)
5	Science (Phy, Chem) or Science (Bio, Chem)	Chemistry
6	Coursework (Art or DT or FN) or Computing	Biology or Physics
7	A Maths or POA	A Maths



Choices for Subject 4 to 7





Sec 3 Express Subject Combinations in 2022 (7 Subjects)

Criteria:

Subject	Criteria
Pure Science subjects	At least 70% in Sec 2 Science
Additional Mathematics	At least 70% in Sec 2 Mathematics
#Combination with 3 Mathematics Subjects: E Maths, Computing & A Maths	At least 75% in Sec 2 Mathematics





Sec 3 Express Subject Combinations in 2022 (8 or 9 Subjects)

SUBJECT	OPTION 3	OPTION 4
1	English Language	English Language
2	Mother Tongue	Mother Tongue
3	E Maths	E Maths
4	(SS, Geography) or (SS, History) or (SS, Lit)	(SS, Geography) or (SS, History) or (SS, Lit)
5	Science (Phy, Chem) or Science (Bio, Chem)	Chemistry
6	Coursework (Art or DT or FN) or Computing	Biology or Physics
7	A Maths or POA	A Maths
*8	Biology or Physics or Geography or Literature	Geography or Literature or Computing
*9	-	3rd Pure Science

****To take an 8th or a 9th subject – a set of additional criteria applies.***

Note: Final subjects offered in 2022 will be subjected to change due to demand and availability of resources.





Sec 3 Express Subject Combinations in 2022 (8 or 9 Subjects)

SUBJECT	OPTION 3	OPTION 4
*8	Biology or Physics or Geography or Literature	Geography or Literature or Computing
*9	-	3 rd Pure Science

****To take an 8th or a 9th subject – a set of additional criteria applies.***

Subject	Criteria
8 th Subject: Biology or Physics	<ul style="list-style-type: none"> At least 70% in Sec 2 overall At least 70 % in Sec 2 Science
8 th Subject: Geography	<ul style="list-style-type: none"> At least 70% in Sec 2 overall At least 70 % in Sec 2 Geography
8 th Subject: Literature	<ul style="list-style-type: none"> At least 70% in Sec 2 overall At least 70 % in Sec 2 Literature
8 th Subject: Computing	<ul style="list-style-type: none"> At least 70% in Sec 2 overall At least 75% in Sec 2 Mathematics [<i>#Combination with 3 Maths Subjects: E Maths, Computing & A Maths</i>]
9 th Subject: 3 rd Pure Science	<ul style="list-style-type: none"> At least 75% in Sec 2 overall At least 75% in Sec 2 Science At least 75% in Sec 2 Mathematics

Note: Final subjects offered in 2022 will be subjected to change due to demand and availability of resources.





Sec 3EXP (Triple Pure Science)

Subject Combination	Subject				No. of Subjects
1	2L	3PS	3MA	1H	9
2	2L	3PS	2MA	2H	9
	<u>L - Language</u> * English * Mother Tongue	<u>PS – Pure Science</u> * Chemistry * Biology * Physics	<u>MA - Maths</u> * E Maths * A Maths • Computing	<u>H - Humanities</u> * Humanities (Social Studies & Geography/History/Literature) • Geography • Literature	
	* Compulsory subject Students are required to select a different Humanities elective if Geography/Literature is offered.				

Example

Student A is offering **Subject Combination 2**:

- 1) English Language
- 2) Malay Language
- 3) Chemistry
- 4) Biology
- 5) Physics
- 6) E Maths
- 7) A Maths
- 8) Humanities (Social Studies, Geography)
- 9) Literature





Sec 3EXP (Double Pure Science)

Subject Combination	Subject				No. of Subjects
3	2L	2PS	3MA	1H	8
4	2L	2PS	2MA	2H	8
5	2L	2PS	2MA	1H	7
	<u>L - Language</u> * English * Mother Tongue	<u>PS – Pure Science</u> * Chemistry • Biology • Physics	<u>MA - Maths</u> * E Maths * A Maths • Computing	<u>H - Humanities</u> * Humanities (Social Studies & Geography/History/Literature) • Geography • Literature	
	* Compulsory subject Students are required to select a different Humanities elective if Geography/Literature is offered.				

Example

Student B is offering
Subject Combination 4:

- 1) English Language
- 2) Chinese Language
- 3) Chemistry
- 4) Biology
- 5) E Maths
- 6) A Maths
- 7) Humanities (Social Studies, History)
- 8) Geography





Sec 3EXP (1 Pure Science, 1 Combined Science)

Subject Combination	Subject						No. of Subjects
6	2L	1PS	1SC	3MA	1H	-	8
7	2L	1PS	1SC	2MA	1H	1C	8
	<u>L - Language</u> * English * Mother Tongue	<u>PS – Pure Science</u> • Biology • Physics	<u>SC – Combined Science</u> • Sci (Biology, Chemistry) • Sci (Physics, Chemistry)	<u>MA - Maths</u> * E Maths * A Maths/ Principle of Accounts • #Computing	<u>H - Humanities</u> * Humanities (Social Studies & Geography / History/ Literature)	<u>#C - Coursework</u> • Art • Design & Technology • Food & Nutrition	
	* Compulsory subject # Either Computing or Coursework (i.e. a student cannot offer both Computing & Coursework) Students are required to select a different Combined Science component if Biology/Physics is offered.						

Example

Student C is offering
Subject Combination 7:

- 1) English Language
- 2) Tamil Language
- 3) Biology
- 4) Science (Physics, Chemistry)
- 5) E Maths
- 6) Principle of Accounts
- 7) Humanities (Social Studies, Literature)
- 8) Art





Sec 3EXP (1 Combined Science)

Subject Combination	Subject					No. of Subjects
8	2L	1SC	3MA	2H	-	8
9	2L	1SC	2MA	2H	1C	8
10	2L	1SC	3MA	1H	-	7
11	2L	1SC	2MA	1H	1C	7
	<u>L - Language</u> * English * Mother Tongue	<u>SC – Combined Science</u> • Sci (Biology, Chemistry) • Sci (Physics, Chemistry)	<u>MA - Maths</u> * E Maths * A Maths/ Principle of Accounts • #Computing	<u>H - Humanities</u> * Humanities (Social Studies & Geography/History/Literature) • Geography • Literature	<u>#C - Coursework</u> • Art • Design & Technology • Food & Nutrition	
	* Compulsory subject # Either Computing or Coursework (i.e. a student cannot offer both Computing & Coursework) Students are required to select a different Humanities elective if Geography/Literature is offered					

Example

Student D is offering
Subject Combination 9:

- 1) English Language
- 2) Malay Language
- 3) Science (Biology, Chemistry)
- 4) E Maths
- 5) A Maths
- 6) Humanities (Social Studies, History)
- 7) Geography
- 8) Design & Technology





Promotion Criteria

Promotion from 2 Express to 3 Express

Pass in English Language and attain an overall percentage of 50% or more





Schedule

- **Aug-Sept 2021 – Subject Combination Survey**
- **Oct 2021 (After end-of-year examination) – Streaming Exercise**
- **End Oct 2021 – Release of Streaming Exercise Results**





BUILD MINDSET & STRONG FOUNDATION



Help your child develop **Growth MINDSET**



Accomplish BIG Things With a **GROWTH MINDSET!**

Success Begins With Believing You Can



Instead of Thinking...

- I can't do it.
- I'm not good at this.
- It's good enough.
- It's too hard.
- I'm afraid of making a mistake.
- They are better at it than I am.
- I don't know how.
- I can't make this any better.
- I don't like challenges.
- I give up.



Think This...

- I'm still learning. I'll keep trying!
- What can I learn to get better at this?
- Is this the best I can do?
- With more practice it will get easier!
- Mistakes are how I learn & get better!
- What can I learn from them?
- I can learn how!
- I can always find ways to improve!
- Challenges make me better!
- I'll try a different way!

Resilience

Giving Our Children S.P.A.C.E. to Grow



S

Support

Be an adult who is supportive and willing to listen

P

Problem-solve

Process setbacks and work with child to develop alternate plans to overcome setbacks

A

Affirm

Affirm strengths and encourage efforts (not just abilities or achievements) to enhance resilience and learning

C

Cheer

Cheer the child on for renewed effort and share inspirational stories of resilience

E

Empower

Provide child with skills and opportunities to try, take risks and experience challenges

We can intentionally role-model resilience & use S.P.A.C.E. language.





*Thank
you*

A close-up of a fountain pen nib, gold in color, with a black barrel. The nib is positioned at the end of the word 'you' in the cursive text.