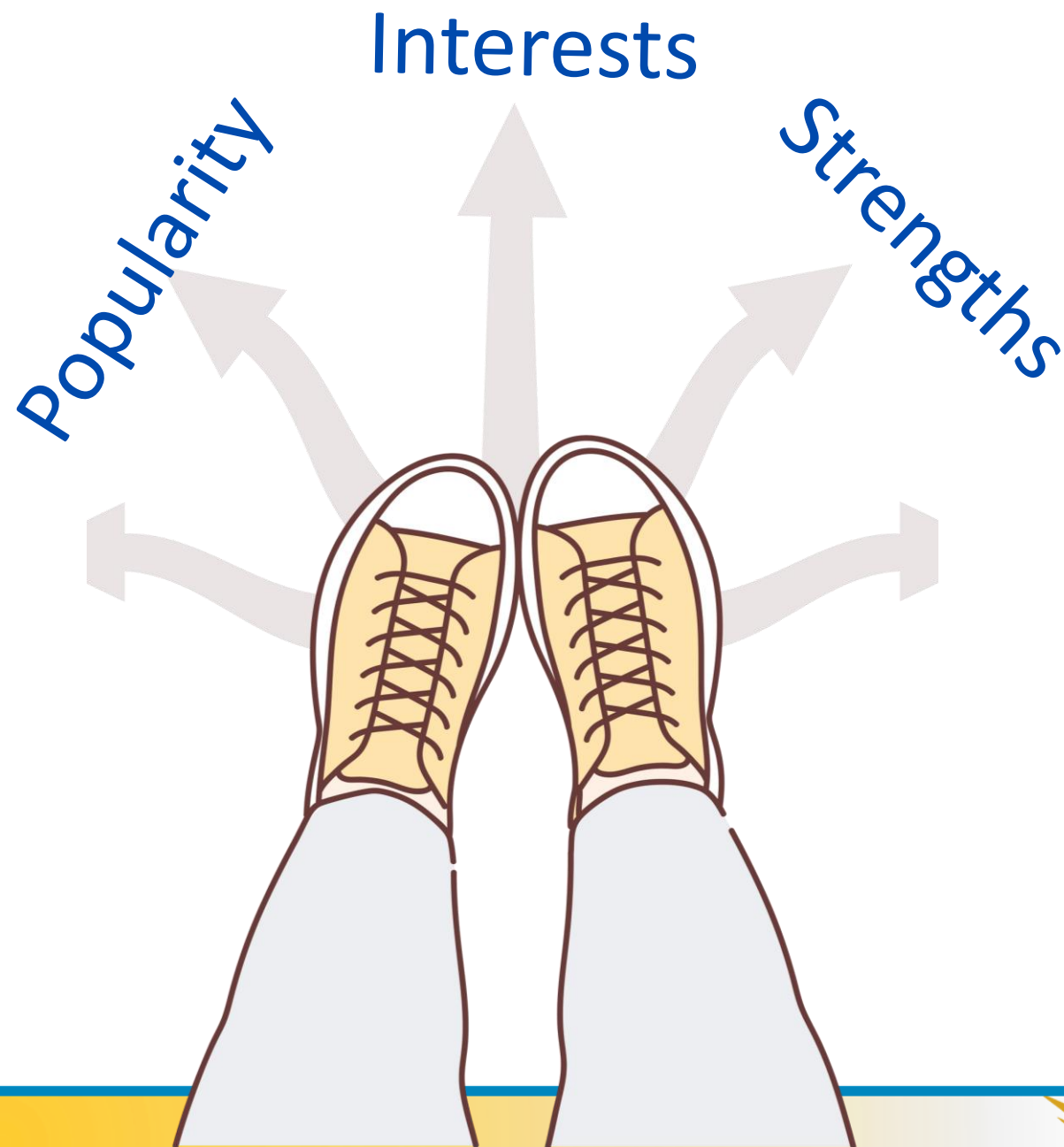


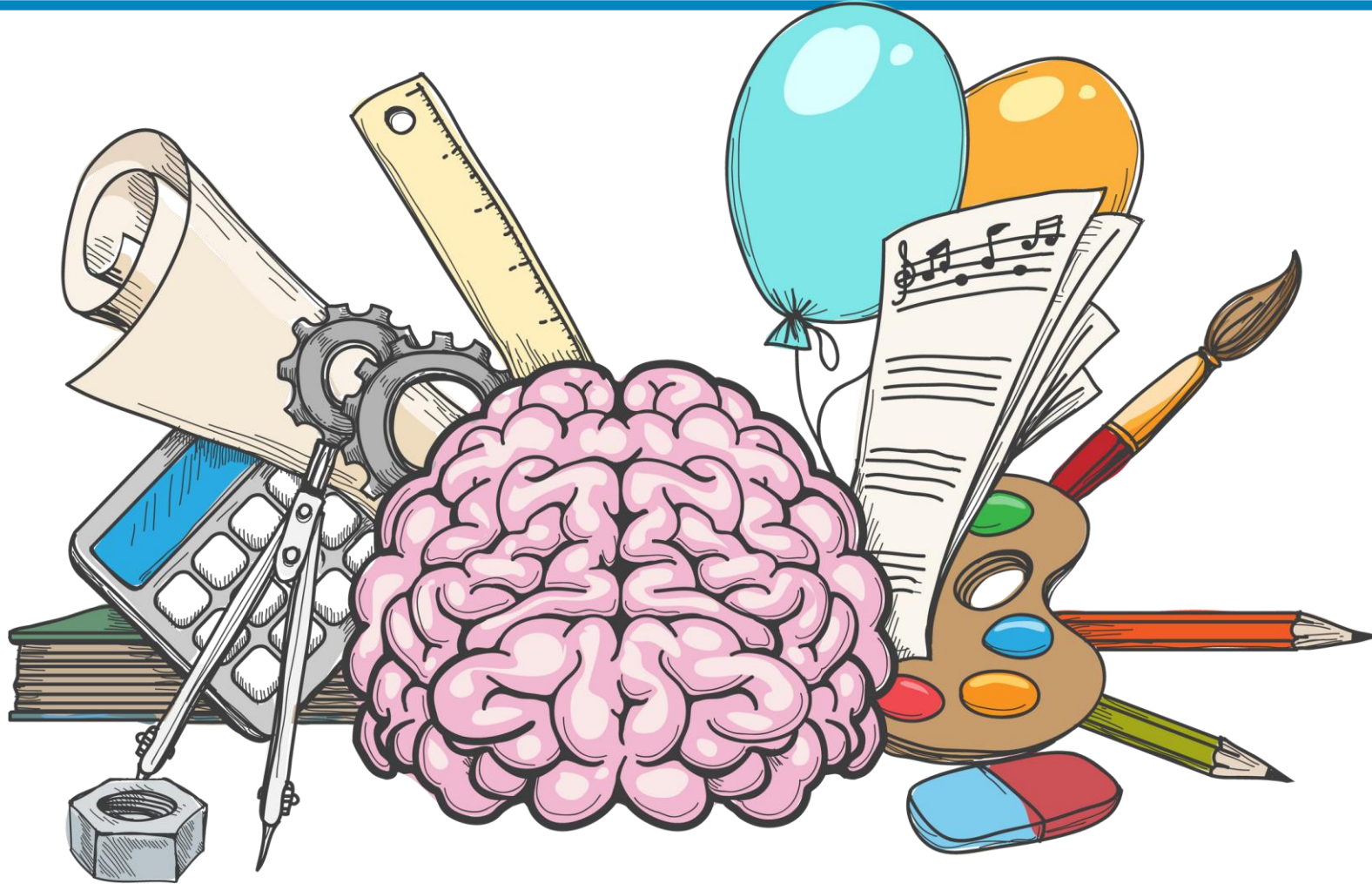
**NORTHBROOKS
SECONDARY SCHOOL**
SOARING YET ROOTED

**Sec 2 ECG Parents
Engagement**
5 July 7.30 – 8.50 pm



How should I choose?





Knowledge-
based



Skills-
based

Career playing field has changed

For starters, who started the scale of desirability for Science? It comes from a good place, Mdm Lee affirms.

Society has a healthy and valid respect for Science-based professions such as medicine and engineering. And because of Singapore's economic priorities, there was also a premium attached to STEM-related fields such as engineering, research and development, and life sciences, which led to high demand and high pay.

Parents also mean well when they nudge their children towards the Sciences, because traditionally, Science students can pursue careers in non-science fields, but seldom the other way round.

However, the world of work is more and more dynamic today, and notions of what are considered ideal pathways, attractive jobs and growth areas are ever evolving, says Mdm Lee, who is now Divisional Director at MOE's Educational Technology Division.



"These ideas of prestige do not mean much if a student has no fancy for those subjects."

Mdm Lee Lin Yee
Divisional Director/ETD
Former head of MOE's Sciences Branch

Case in point: The route to becoming a doctor has expanded, and Triple Sciences is not the only way there (but more on that later).

Hence, it bodes well for parents to be more familiar with the diverse work landscape, to better guide their children.

Pursuing a course or subject combination because of its perceived clout may also backfire. "These ideas of prestige do not mean much if a student has no fancy for those subjects," Mdm Lee stresses; students are better off picking subjects that align with their interests – they are more likely to succeed not just in those subjects and courses, but also in their careers thereafter.



Choosing subjects for Secondary 3: 'Put interest before popularity'

03 MAY 2024



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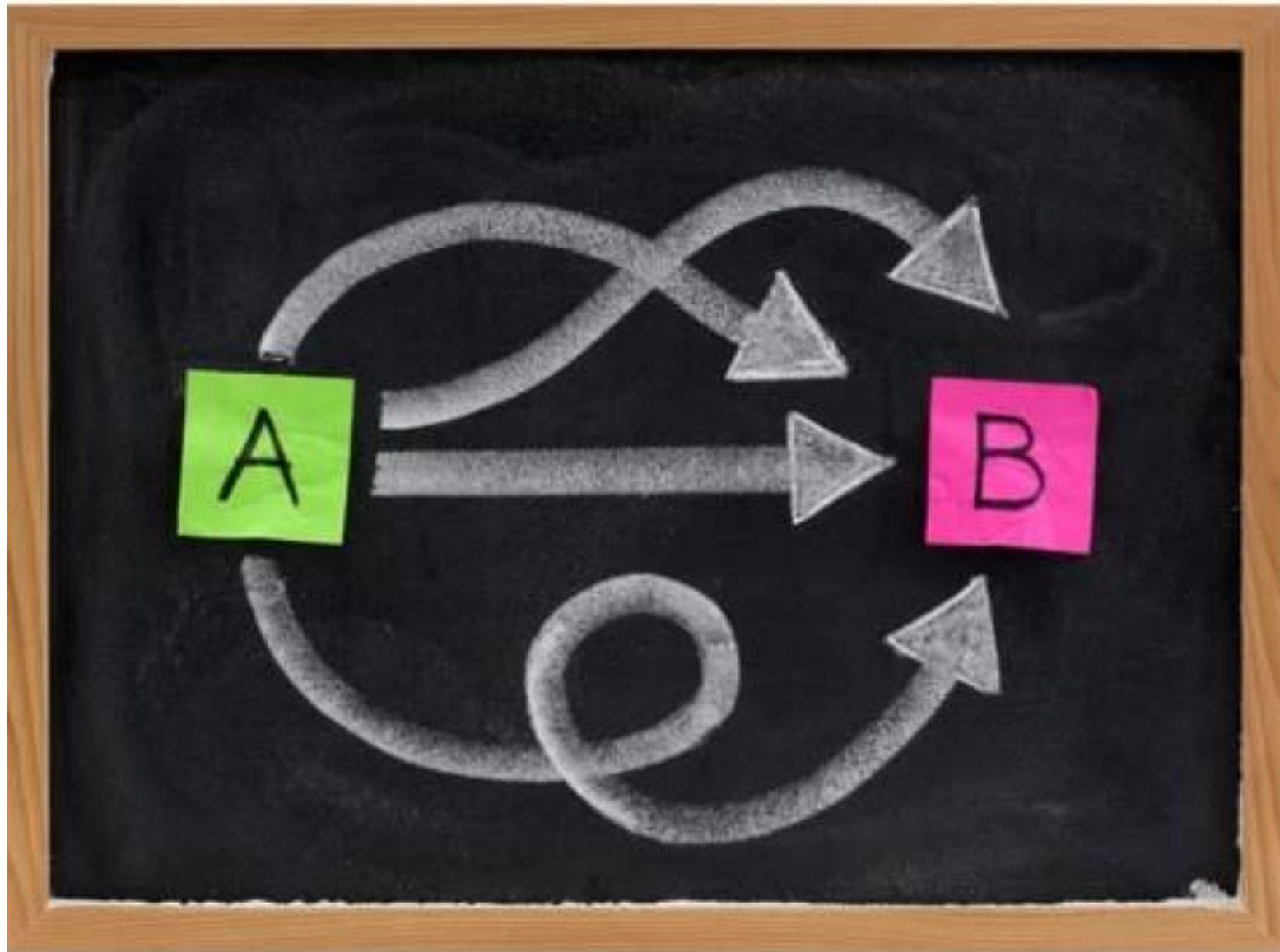


DO
WHAT
YOU
LOVE

LOVE
WHAT
YOU
DO



In the garden of setbacks, the seeds of growth are sown. Cultivate a mindset that sees challenges not as obstacles but as opportunities for a more resilient and thriving you.





Subject Combination and Supporting Your Child's ECG Journey by ECG Counsellor Ms Yap Hwee Hoon



NORTHBROOKS
SECONDARY SCHOOL
SOARING YET ROOTED



Sharing

- 1) Education & Career Guidance Support for your child
- 2) Factors to consider in selecting upper secondary subjects and its impact on post N/O-Level pathways
- 3) Tips on Parent-Child ECG conversation

My Education & Career Guidance Journey @ NBRSS



We are here!

**Secondary 2
Career Awareness**
(RIASEC career exploration,
Selection of Sec 3
Subject Combination)

Post-tertiary
Further education or
Join the world of work

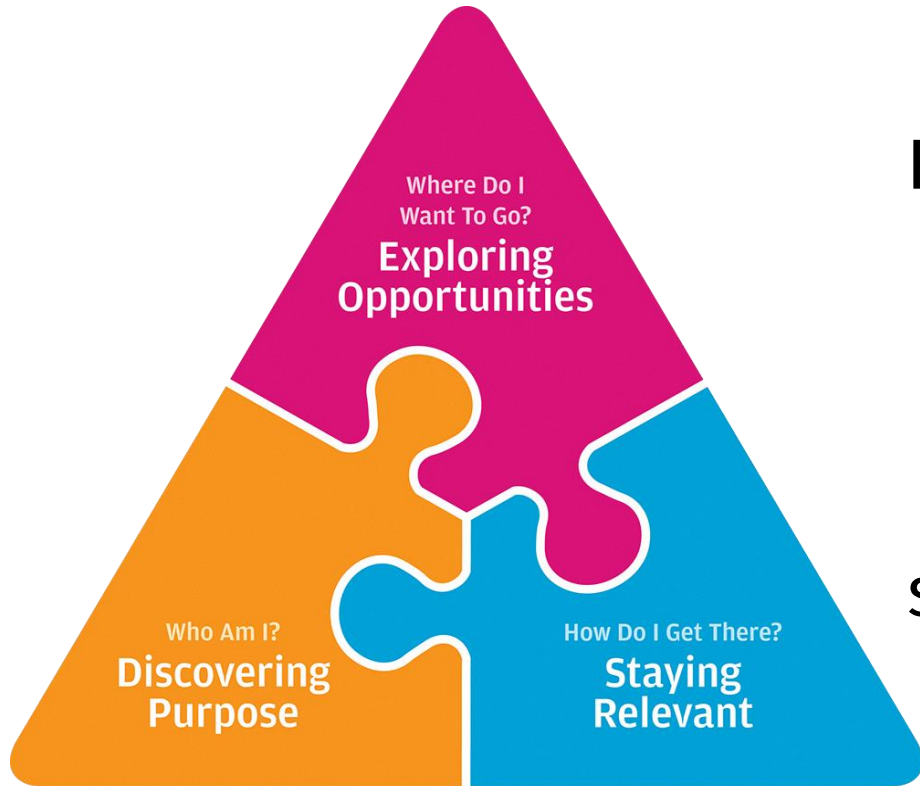
Adulthood



**Secondary 1
Self discovery and exploration**
(RIASEC exploration,
Show and Tell)

**Secondary 3/4/5
Career Planning and Exploration**
(Exploration of post-secondary education institutes, industries, portfolio development, preparation for EAE/DSA, interview workshops, Career Day)

Defining Success



Education & Career Guidance

Home-School Partnership, we guide your child to

- develop their **life purpose**,
- explore **opportunities**, and
- stay **relevant**,

so that they can ***define their own success***

- Deeper learning of subjects at upper secondary level
- Prepare your child for post N/O-Level courses in ITE / Pre-Universities / Polytechnic / Arts Institutions that are aligned to their Values, Interest, Personality, Strength (V.I.P.S) and aspirations



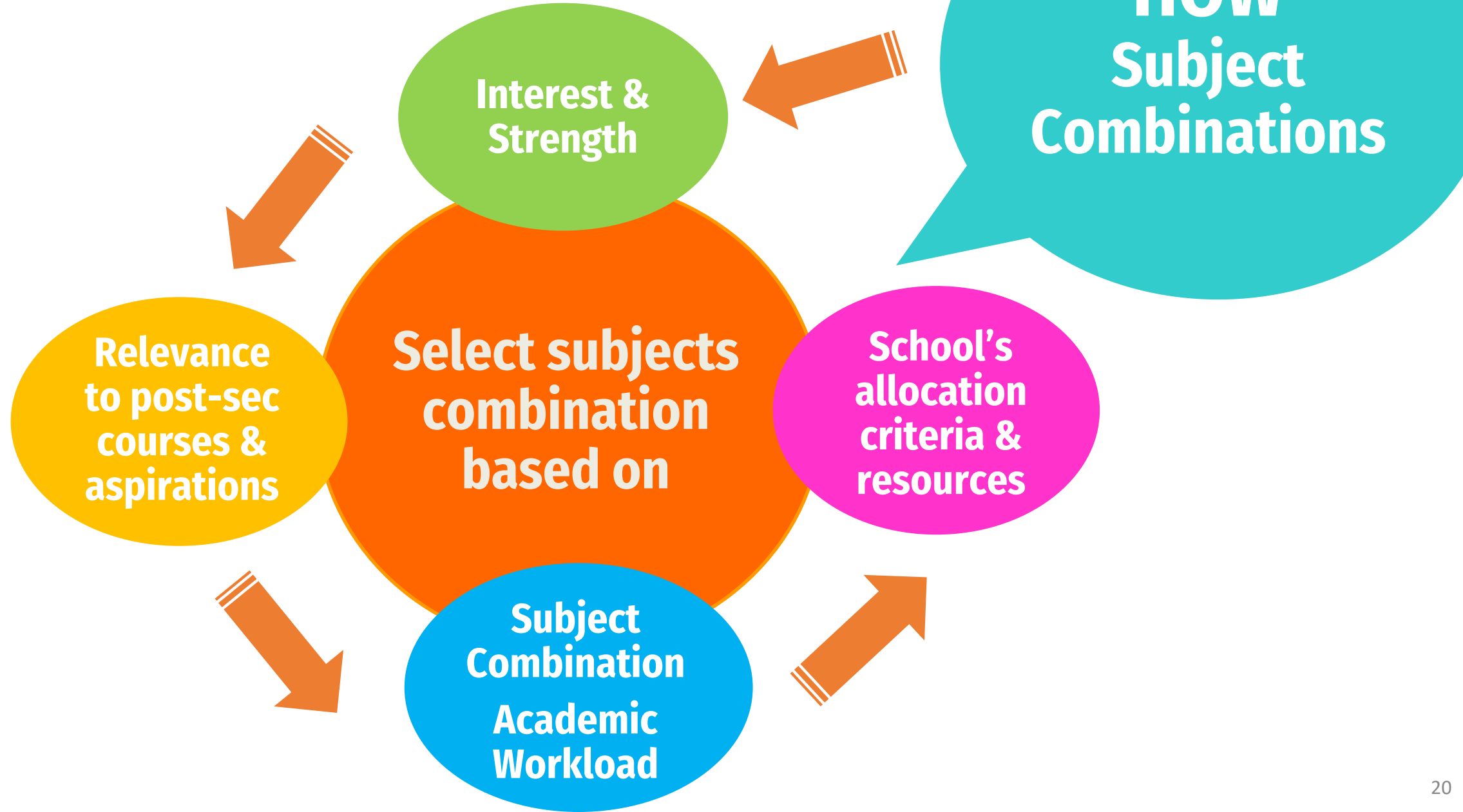
**WHY
Subject
Combinations**

WHAT Subject Combinations

- Select 5 – 7 subjects, depending on your child's exam type (*ie, Normal Academic, Normal Technical, Express*)
- What subject level to take? (*ie. Normal Academic, Normal Technical, Express*)
- Which electives to take?
- Choose a subject combination that are aligned to child's Values, Interest, Personality, Strength (V.I.P.S), aspirations and post N/O-level courses child wish to enrol in



4 Factors To Consider



Your Child's Subject Interest and Strength

Who am I?

Discovering Purpose

Interest

E.g. drawing, dismantle & reassemble toy cars, science, tech, subjects child like

Personality

E.g. hands-on, creative, like variety, 1 task a time

Strength

E.g. people person, problem-solving, curious, numeracy skills

Aspirations/

Areas to contribute to

E.g. food sustainability, environment, cyber wellness

Aeronautic Technology



Air Force Museum



Students Development Experiences

- CCA
- Camps
- Competitions
- Community Service
- Learning Journey



Changi Xperience Studio



Forensic Science

Relevance
to post-sec
courses &
area to
contribute

Subject Combi Relevance to Post-Sec Courses

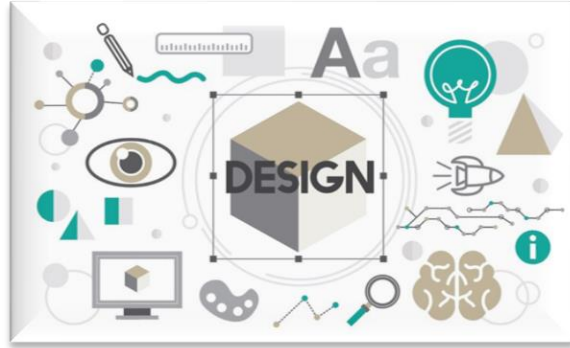
Where do I want to go?
Exploring Opportunities



Keep up-to-date with changing industries
and education landscape

Understand the subject combination
required for post-sec courses

Opportunities in the Changing Industries Landscape



Design & Tech related

E.g. design interior space, video production, architect



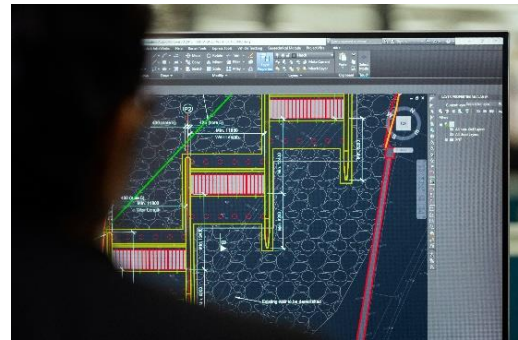
Sustainability related

E.g. protect biodiversity, research and solve issues of pollution, waste



Biopharmaceutical Manufacturing

E.g. research and test new drug, manage manufacturing plant's operations



Engineering related

E.g. design and test new aircraft, improve quality of medical care products



Business related

E.g. finance, marketing, office admin



Food Science related

E.g. develop food process engineering technology, create new food source

Emerging Industries

New Job Roles

Transferable Soft Skills

16 Critical Core Skills for Employability

Firms prioritise skills over academic qualifications, say top leaders from Google and LinkedIn



Photo Credit: The Straits Times, YouTube

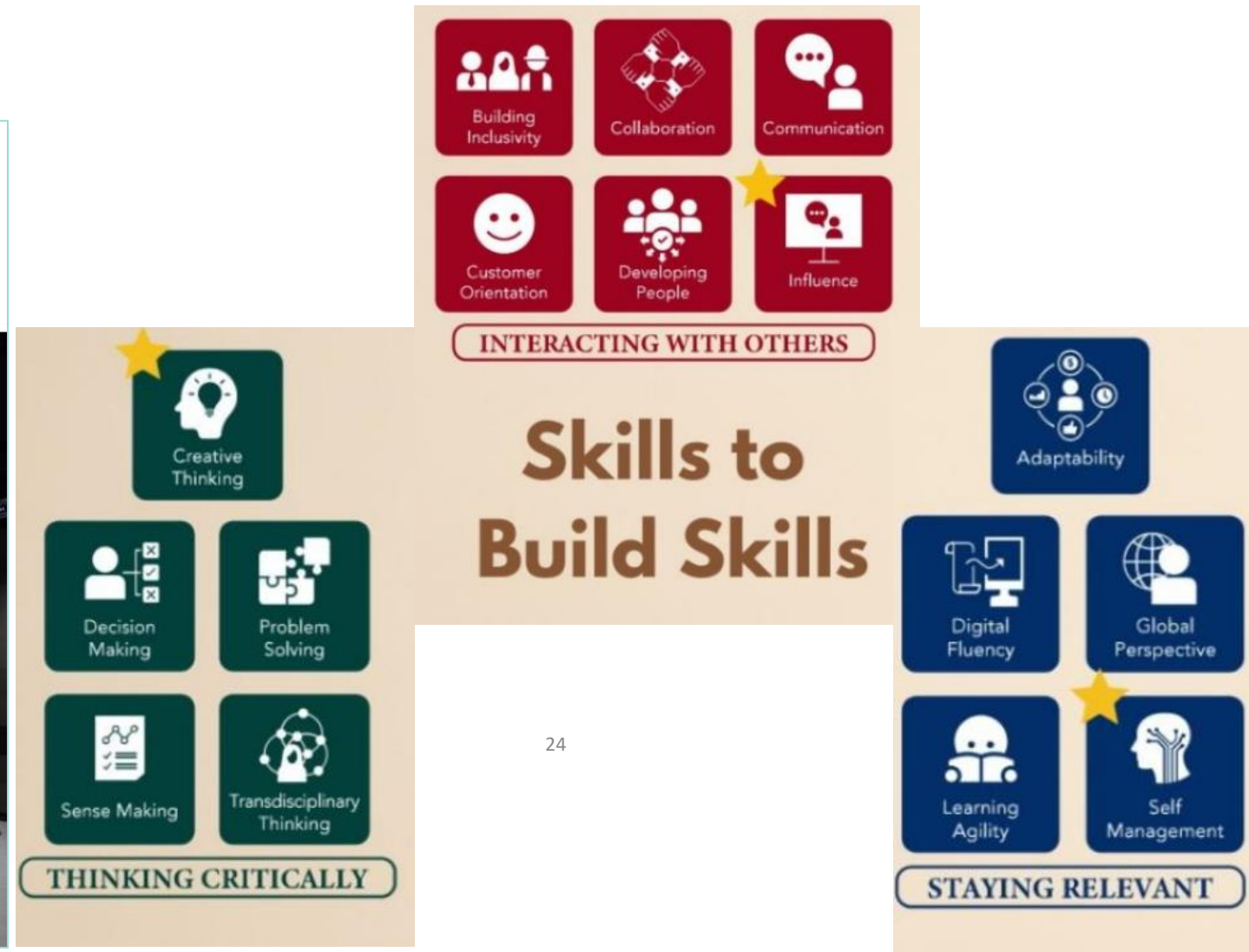


Photo Credit: MySkillsFuture Website

Understand post-sec pathways and relevance of subject combination to post-sec courses



Relevance to post-sec courses & area to contribute

Post-Secondary Pathways

Poly



Arts Institution



ITE



**Junior College (JC)/
Millennia Institute (MI)**

hands-on and practice-based learning experience in various fields of study

Graduate with diploma and join World of Work or further studies at university

Graduate with Higher Nitec and join World of Work or pursue Poly / ITE Diploma

Upon graduation, progress to university

3-Year diploma

2 or 3-Year Higher Nitec

2 or 3-Year GCE A-Level

E.g.

- Diploma in AI & Data Engineering
- Diploma in Biomedical Science

E.g.

- Diploma in Music
- Diploma in Interior Design

E.g.

- Higher Nitec in Cyber Network and Security
- Higher Nitec in Sports Management

E.g.

- Science Stream
- Art Stream
- Commerce Stream (MI)

Multiple Post N/O-Level Progression Pathway

Available Pathway for both NT, NA & O-Level Students

ITE 3-Year Higher Nitec



- 1) ITE Work-Study Diploma
- 2) ITE Technical Diploma
- 3) Poly Diploma
- 4) Arts Institution Diploma

Additional Pathway for NA-Level Students

1) Sec 5 for O-Level

2) Poly Foundation Programme (PFP)

3) ITE Direct Entry Scheme to Poly Programme (DPP)

4) Nanyang Academic of Fine Art Foundation Programme (NFP)

Graduate with a Diploma

Additional Pathway For O-Level Students

1) Junior College/ Millennia Institute (GCE A-Level)

2) ITE 2-Year Higher Nitec

3) Poly Diploma

4) Arts Institution (Nanyang Academy of Fine Arts / LASALLE College of The Arts)

Progression to pathways subject to meeting eligibility criteria

ITE & Poly Pathway for NT, NA & O-Level Students

Authentic Learning Simulating Workplaces

Workplace@Campus, Campus@Workplace



Training Kitchens @ CW



Automotive Hub @ CW



Centre for Healthcare Simulation @ CE



Aerospace Hub @ CC



ITE-Sembcorp Centre for Sustainable Solutions @ CE



Horticulture Technology Hub @ CE

Augmented with 6-month internship for learning at the workplace

Industry Exposure and Progression

ITE students get LKY Technology Award for coming up with prototype for cheaper ventilators



Industry Competition

Ex-ITE student's dream comes true as he joins 2,000 graduating from Singapore Institute of Technology



Progression to university

FPT Software enters into a partnership with Nanyang Polytechnic



Microsoft opens Asia's first Datacenter Academy in Singapore with ITE

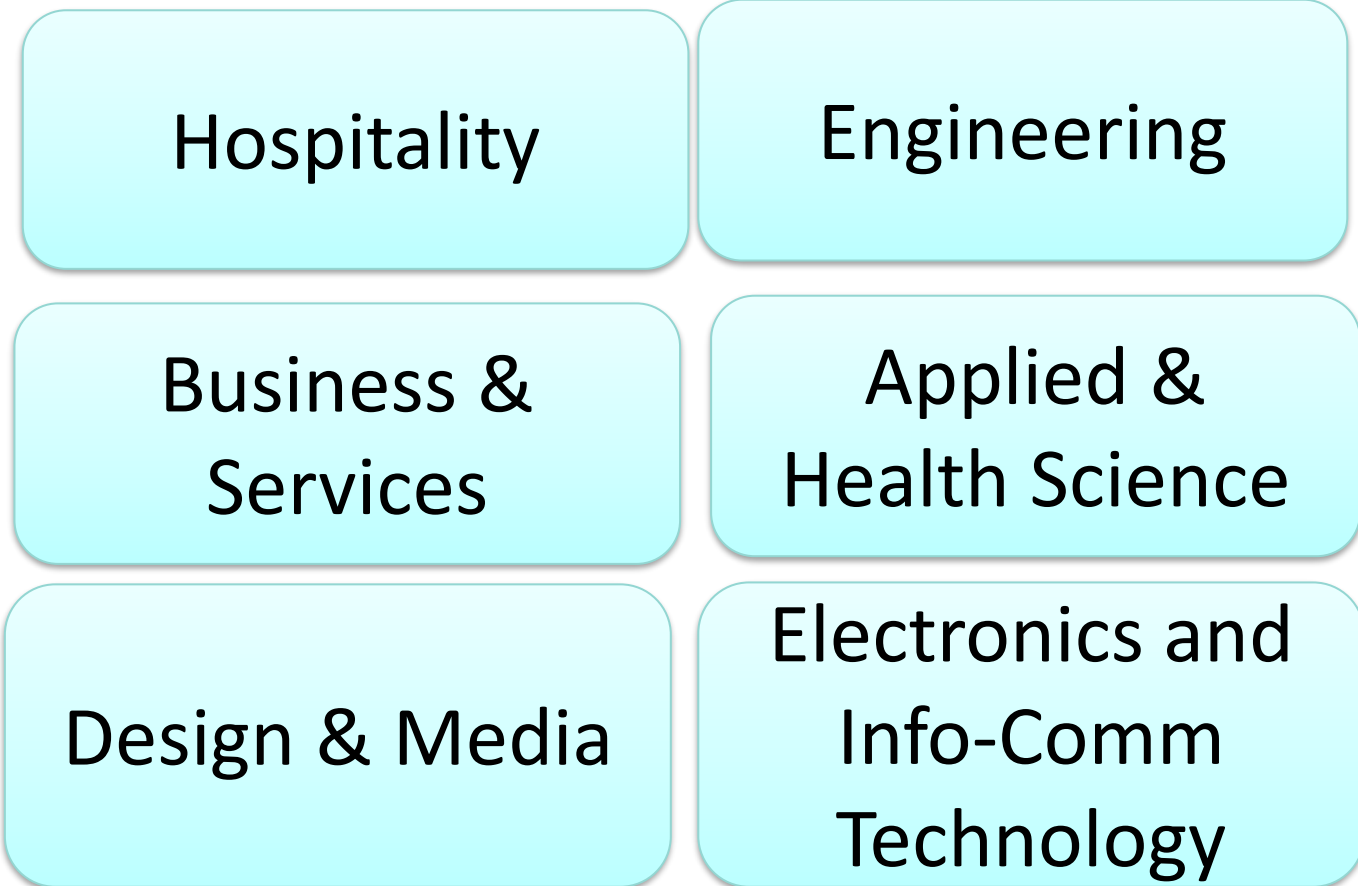
Nov 17, 2022 | Singapore News Center



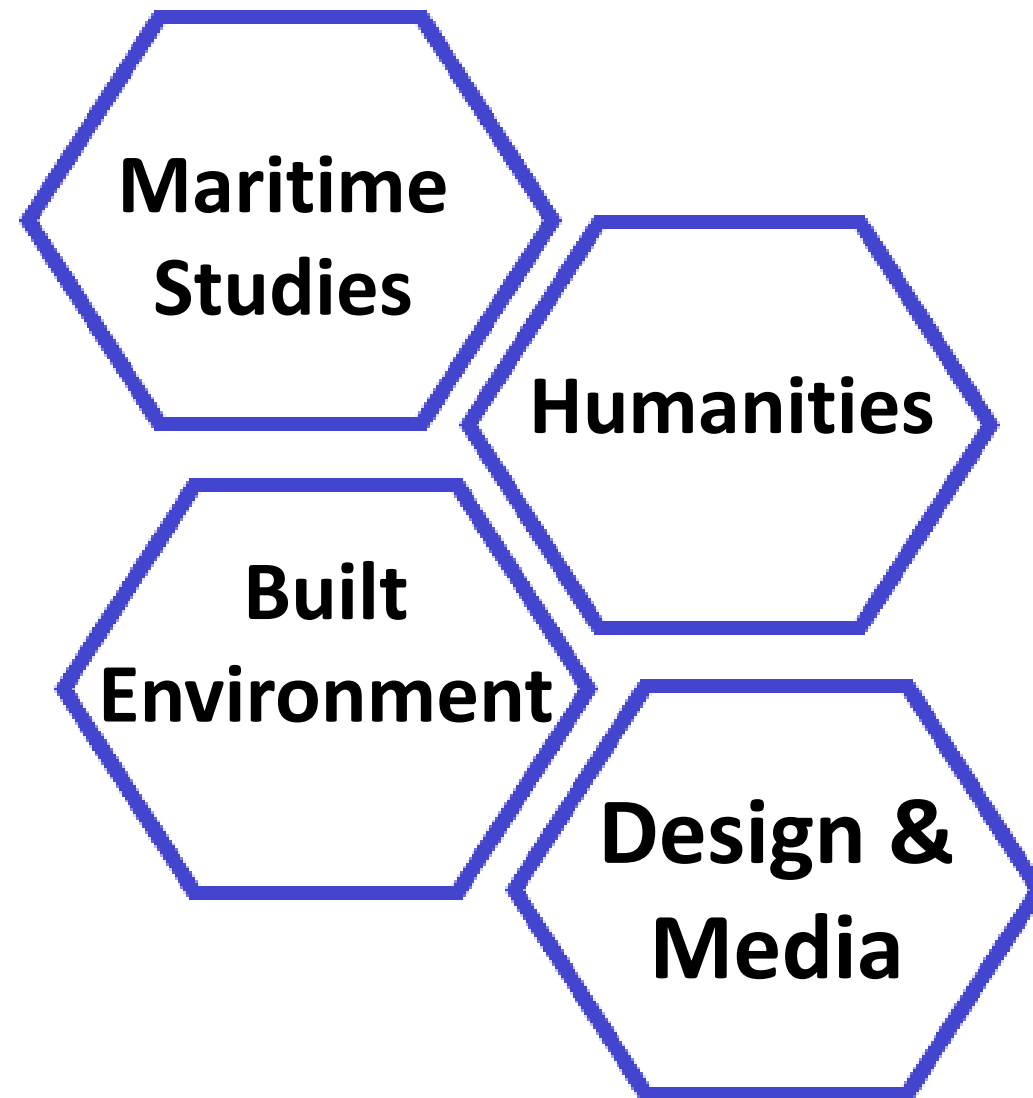
Industry Partnerships

Sample Course Clusters at ITE / Poly

ITE



Poly



ITE Pathway: Relevant Subjects

2-Year Higher Nitec (O-Level Students)

Depending on course:

- English
- Elementary OR Additional Mathematics
- Pure Science or Science
(Chemistry/Physics)/(Chemistry/Biology)
- Computing

3-year Higher Nitec (NT, NA & O-Level Students)

Depending on course:

- English
- Elementary OR Additional Mathematics
- Science

Poly Pathway: Relevant Subjects (R1 & R2)

ELR2B2 (Require 5 O-Level subjects) / EL: English, R: Relevant Subject, B: Best Subject



Sample	Group A Social Sciences	Group B Business	Group C Science / Engineering / ICT	Group D Design/Media
Example of courses	<ul style="list-style-type: none"> Arts & Theatre Management Law & Management Mass Communication 	<ul style="list-style-type: none"> Accountancy Food & Beverage Business Hospitality & Tourism Management 	<ul style="list-style-type: none"> AI & Data Engineering Biomedical Science Food Science & Tech 	<ul style="list-style-type: none"> Animation, Games & Visual Effects Landscape Design & Horticulture Product Experience & Design
R1	Art, Geography, History, Literature	Elementary Mathematics OR Additional Mathematics (E or A Maths)		
R2	E or A Math Art Design & Technology Nutrition & Food Science Geography, History, Literature Higher MTL Music	Art Humanities Geography History Literature	Combined Science Biology Chemistry Physics Design & Technology Nutrition & Food Science	Art Combined Science Biology Chemistry Physics Design & Technology Nutrition & Food Science
B1, B2	Any Best 2 Subjects			

GCE A-Level Pathway: Relevant Subjects for Junior College / Millennia Institute

Junior College (JC): 2-Year Programme (Require 6 O-Level subjects)

Number of subjects	L1R5 - 6 subjects
L1R5	Relevant subjects
L1	<ul style="list-style-type: none"> English OR Higher Mother Tongue
R1	<ul style="list-style-type: none"> Humanities
R2	<ul style="list-style-type: none"> Math
R3	<ul style="list-style-type: none"> Science
R4 & R5	<ul style="list-style-type: none"> Any 2 best-scoring subjects except religious knowledge

Millennia Institute (MI): 3-Year Programme (Require 5 O-Level subjects)

Number of subjects	L1R4 - 5 subjects
L1R4	Relevant subjects
L1	<ul style="list-style-type: none"> English OR Higher Mother Tongue
R1, R2	<ul style="list-style-type: none"> Any 2 best-scoring subject from Humanities, Math or Science
R3, R4	<ul style="list-style-type: none"> Any 2 best-scoring subjects except religious knowledge

Support for ITE graduates

For ITE graduates aged 30 and below:

- **S\$5,000 top-up** to Post-Secondary Education Account when an ITE graduate enrolls in a diploma programme
- Further **S\$10,000 top-up** to CPF Ordinary Account when the ITE graduate gets their diploma



Support for ITE Graduate

THE STRAITS TIMES

From Academic Year 2027, students pursuing a **Higher Nitec qualification at ITE** will be guaranteed admission to a **polytechnic course related to their Higher Nitec course**, if they attain a grade point average (**GPA**) of **3.5 or above**, the Ministry of Education (MOE) said.

Progression from ITE to Poly

More pathways to polys for ITE
students from 2027



ITE College West graduate Muhammad Carel Razali won the Singapore Business Federation Gold Medal. ST PHOTO GANN HO

Aptitude-Based Admissions

THE STRAITS TIMES

SINGAPORE

More aptitude-based varsity admissions to shift emphasis away from academic grades



Direct School Admission – JC (DSA-JC)

ITE Early Admission Exercise (ITE EAE)

Poly Early Admission Exercise (Poly EAE)

Encourage child to explore and participate in different inside and outside school activities and keep records of their participation.

(eg. photos, certificates, skills learn)

These records will be useful for aptitude-based admissions in the future.

Academic Workload and School's Offering

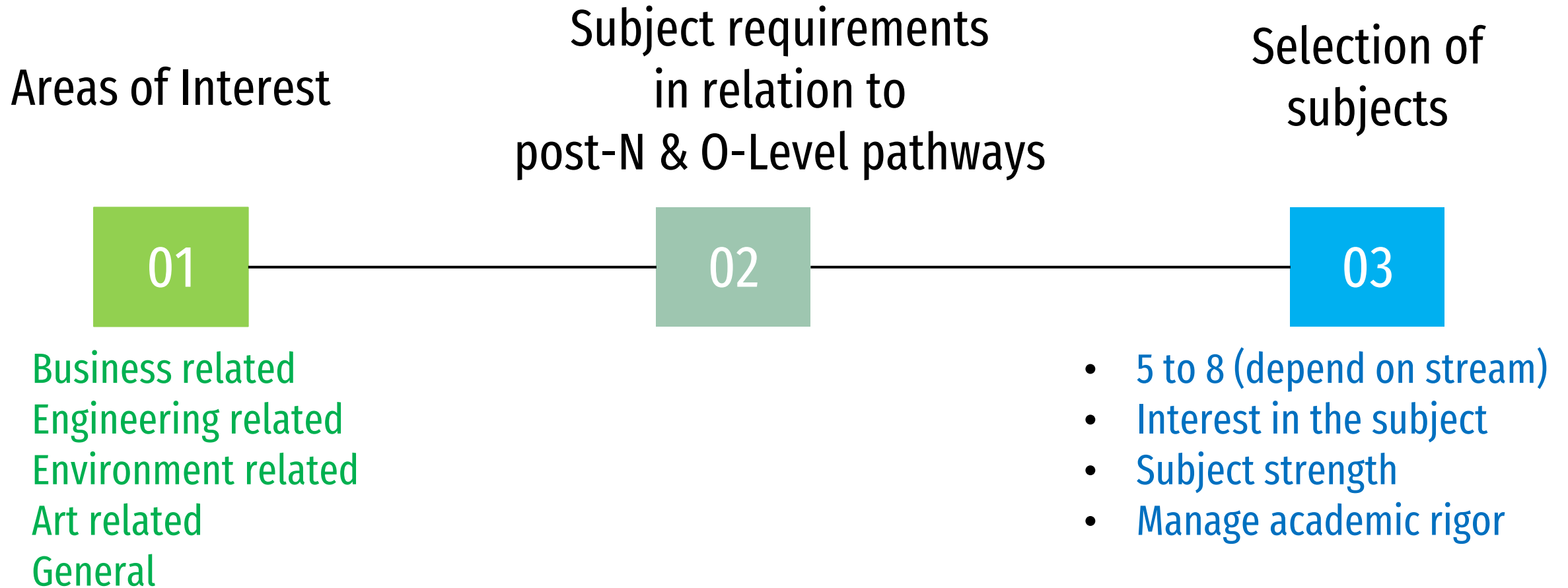
How do I get there?
Staying Relevant

**Subject
Combination
Academic
Workload**

**School's
allocation
criteria &
resources**

- Understand school's subject combination offering
- Understand the eligibility criteria
- Right-sizing subject combination to manage academic rigor
- Set goals; E.g. required grades for the subject combination
- Be open to consider different subject combination
- Be adaptable and resilience

In Selecting Subject Combination, Think About



Select a subject combination that align to your child's Values, Interest, Personality, Strength, aspirations, and open-up multiple post N/O-level possibilities.

Tips On Parent-Child ECG Conversation



Have regular conversation with child, hear their thoughts

Understand child's values, interest, personality, strength, aspirations

Research with child on emerging industry trends & careers to make an informed decision

Encourage child to explore opportunities, be open-minded, adaptable and embrace a growth mindset

Journeying With Our Children, Achieving Their Aspirations

Choosing subjects for Sec 3: Put interest before popularity



Video Recording: Helping Your Child Transiting to Post-Secondary Pathways: Panel discussion between ECG Counsellor, Parent and his teens



ECG Resources

Education & Career Guidance (ECG) Suggested Resource for Students and Parents
Use the 3 ECG Questions to guide you in your exploration and make an informed decision for your education and career pathways: "Who Am I? (discovering your purpose)", "Where Do I Want To Go? (exploring opportunities)", "What Do I Want To Do? (exploring relevant)"

There are Multiple Pathways to reach your aspirations.

- ECG Consultation & Contacts**
 - What is Education & Career Guidance for you? (YouTube)
 - Connect with Ms Yap Hwee Hoon, ECG Counsellor
- Sign Up: Gain experiences & develop your portfolio**
 - myskillsfuture.gov.sg
 - Youth Corps Singapore Volunteering Opportunities
 - Discover On My Way: Connect with seniors at ITE, Poly, JC, Uni or sign-up for job tasters
- Parent & Child ECG Conversation**
 - Choosing subjects for Sec 3: Put interest before popularity
 - Should I choose a subject I'm good at, or one that I love?
- ITE EAE 2024**
 - 21 to 28 May: ITE EAE Application dates for 2025 Intake
 - ITE 3-Year Higher Nitec & 2-Year Nitec Courses for EAE Application
- Poly EAE 2024**
 - Poly EAE Application Template
 - 20 - 26 June: Poly EAE Application Opens for 2025 Intake

Education & Career Guidance Padlet
<https://go.gov.sg/ecg-resource>

GO.gov.sg

<https://go.gov.sg/ecg-resource>

Browse and sign-up for external ECG events, Watch career videos, Suggested research websites for industries and educational pathways, Read inspiring stories, Ms Hwee Hoon's contact and ECG Appointment Link



Encourage Child To Explore New Experiences

Sign Up:
Gain experiences &
develop your
portfolio



Pinned

Join 'On My Way' Telegram
for talks, events and job
taster programmes

omw
on my way

t.me

THE ASTRONAUTS COLLECTIVE **ngee ann polytechnic**

STATION X

20 July, 9am - 1pm | NP Convention Centre

DISCOVER DIVERSE CAREER OPTIONS THROUGH THE IDEA OF "WORLDS" AT STATION X!

Learn from **working professionals** through **hands-on activities** and have **candid conversations** with them to find out how different jobs contribute towards the world around us, in small and big ways.

Don't miss the chance to interact with professionals across the IT, science, education and more!

Marvel of Science + Tech HACKATHON 2024

>>> <https://for.edu.sg/joinhackathon>

23 - 24 Oct 2024
Inno*space at Ngee Ann Polytechnic Campus
9.30am - 6pm
Registration closing Date: 1 August 2024

Take ownership of learning!

Alexandra Hospital

CAREER XPLORATION FAIR 2024

Calling all students! Uncover **Alexandra Hospital's best-kept secret** and learn more about Nursing, Allied Health, Ancillary & Administrative careers and sponsorships with us!

29 JUN SATURDAY **10-4 AM PM**

ALEXANDRA HOSPITAL COCOON

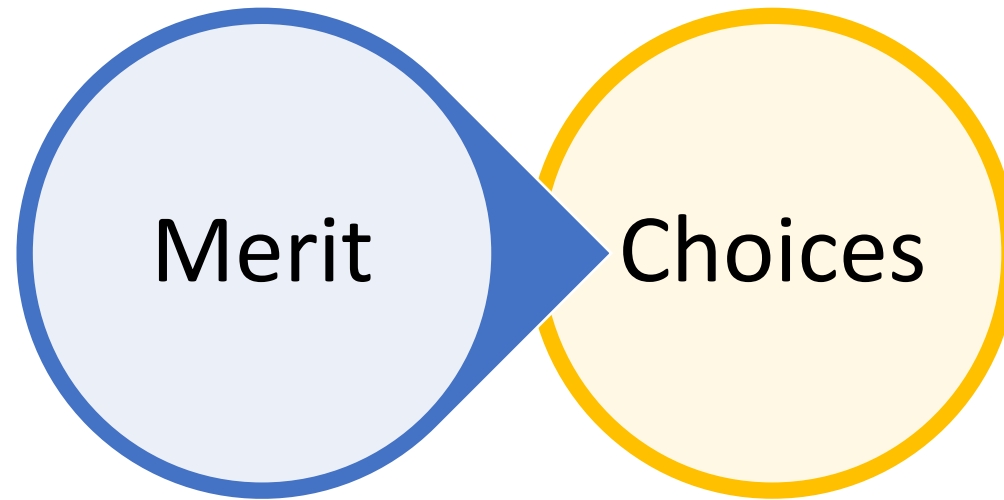
REGISTER HERE
Scan QR or visit our webpage

FREE SHUTTLE BUS SERVICE
Between Queenstown MRT station and AH. Visit for.sg/careerexploration2024 for the full schedule.

<https://for.sg/careerexploration2024>

Key Considerations

Students are allocated to their Sec 3 subject combination based on the following:



Overall percentage of all subjects at Sec 2 and subject eligibility criteria

Rank order –
1st choice will be considered if students' results meet the subject eligibility criteria



Key Considerations

For GCE 'O' and 'NA' Level, a minimum of 6 subjects is required.

For GCE 'NT' Level, a minimum of 5 subjects is required.

Note: Students who takes more than 6 subjects will have longer curriculum hours. Subjects offered are centred on the best interests of the student, progression pathways and availability of resources.

Secondary 3 Express Subject Eligibility Criteria

Subjects	Criteria (Based on Sec 2 <u>Overall</u> Results)
Additional Mathematics	A good pass* in Mathematics
Pure Sciences	A good pass* in Science
Social Studies + Literature	A good pass* in Literature and English Language

* A good pass in a subject depends on the overall performance of the cohort.



Secondary 3 Normal (Technical) Subject Allocation

Subject	Criteria (Based on Sec 2 <u>Overall</u> Results)
Elements of Business Skills (EBS)	A good pass* in English Language

* A good pass in a subject depends on the overall performance of the cohort.

Secondary 3 Express Combinations

Subj	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14
1	English Language													
2	Mother Tongue													
3	Mathematics													
4	HUM (SS and elective GEO <u>or</u> LIT <u>or</u> HIS)	HUM (SS and elective LIT <u>or</u> GEO)	HUM (SS and elective GEO <u>or</u> LIT <u>or</u> HIS)	HUM (SS and elective LIT <u>or</u> GEO)	HUM (SS and elective GEO <u>or</u> LIT <u>or</u> HIS*)									
					* Students choosing Elective HIS cannot select C6 and C11									
5	Physics	Physics	Biology	Biology	Science(Physics/Chemistry)					Science(Biology/Chemistry)				
6	Chemistry	Chemistry	Chemistry	Chemistry	AM	HIS	ART	DT	NFS	AM	HIS	ART	DT	NFS*
7	AM	HIS	AM	HIS										

**Note: Nutrition & Food Science (NFS) was formerly known as Food & Nutrition*

Secondary 3 Normal (Academic) Combinations

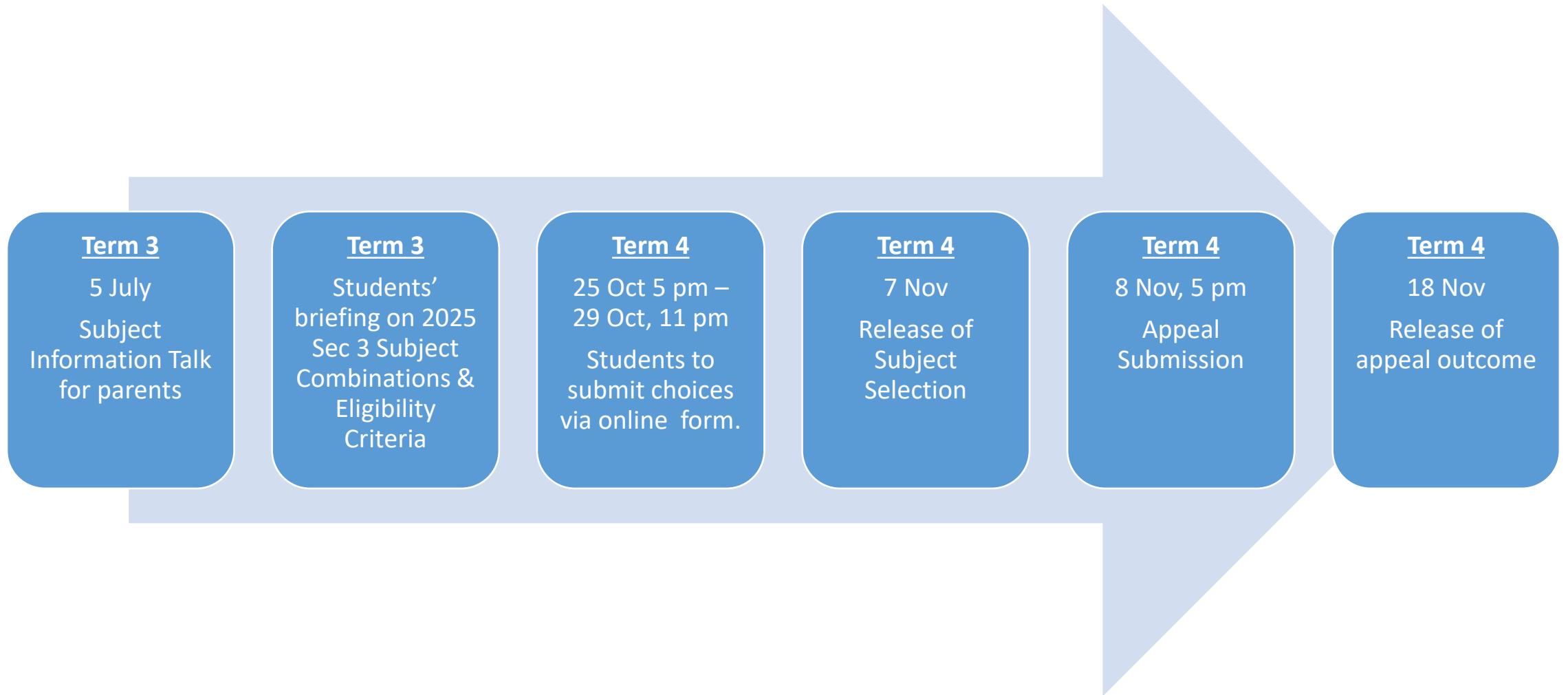
				Combined Humanities	Combined Science	Elective
6 subjects	EL	MT	Math	Social Studies & Geography elective OR Social Studies & History elective	Physics & Chemistry OR Biology & Chemistry	Design & Technology OR Nutrition & Food Science* OR Art

**Note: Nutrition & Food Science (NFS) was formerly known as Food & Nutrition*

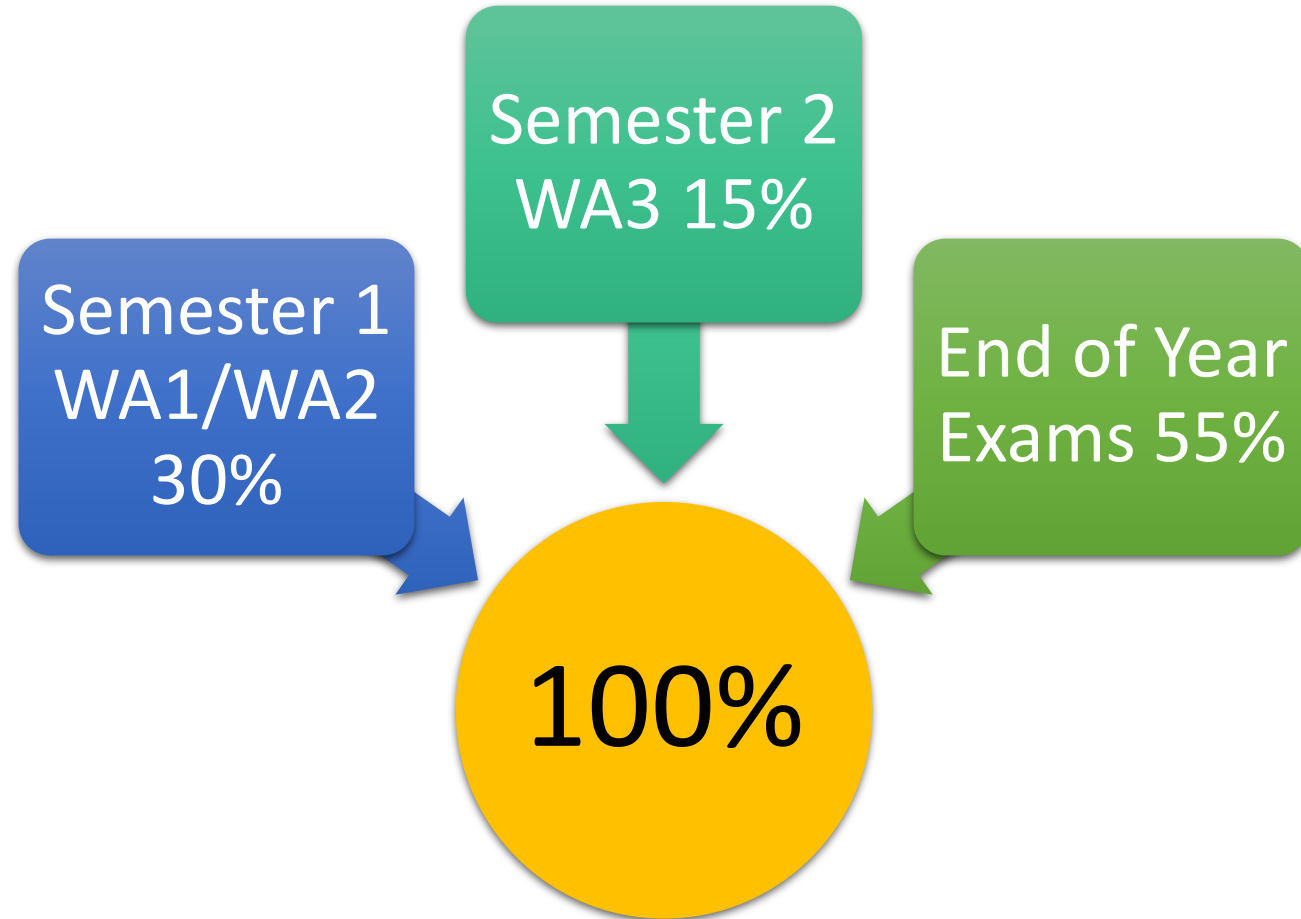
Secondary 3 Normal (Technical) Combinations

						Elective
6 subjects	EL	Basic MTL	Mathematics	Science	Computer Applications	NFS OR D&T OR Elements of Business Skills

Timeline for Subject Selection Exercise



Sec 2 Assessment Structure



Sec 2 Promotion Criteria

Express

- Pass in EL and 50% in average of all subjects.

Normal Academic

- Pass in EL & 2 other subjects or pass in any 4 subjects

Normal Technical

- Pass in EL or Maths and 1 other subject

Criteria for Lateral Transfer

2024 Sec 2 NA may laterally transfer to 2025 Sec 3 Exp

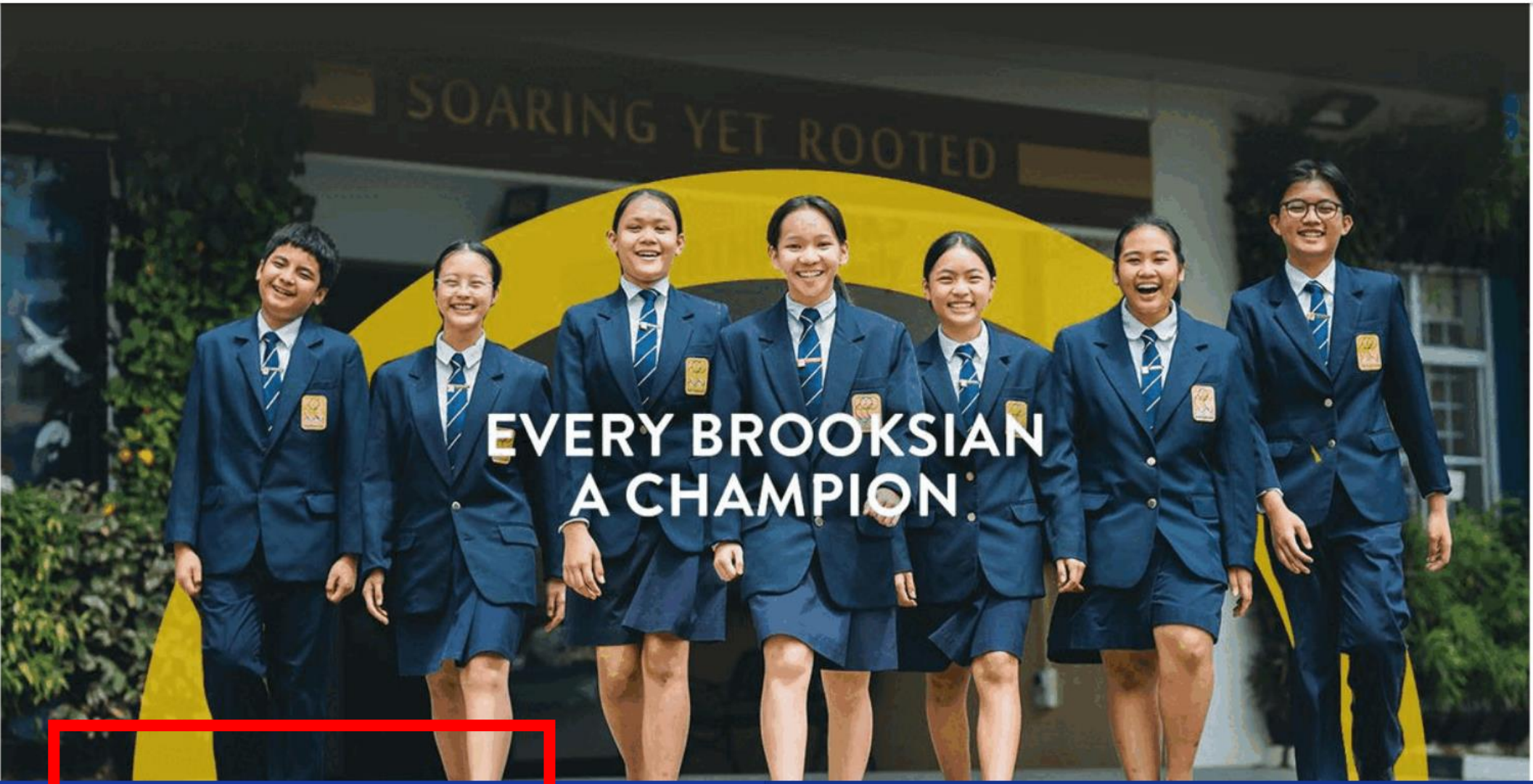
- Pass in all subjects
- At least 70% in 2 of the following subjects (EL, Maths, Science) taken at NA Level
- Minimum 70% in average of all subjects.

2024 Sec 2 NT may laterally transfer to 2025 Sec 2 NA

- Pass in all subjects
- At least 70% in 2 of the following subjects (EL, Maths, Science) taken at NT Level
- Minimum 70% in average of all subjects.

Subject Information and Subject Combinations

- To help students and parents make more informed decisions, information on the different Sec 3 subjects (Humanities, Sciences and Coursework) is also made available via the School Website.



NEWS & ANNOUNCEMENTS

ACHIEVEMENTS

**NORTHBROOKS
SECONDARY SCHOOL**
SOARING YET ROOTED

**THANK
YOU**

