

**NORTHBROOKS
SECONDARY SCHOOL**
SOARING YET ROOTED

Sec 2 Parents' Seminar

24 May 2023

1 to 2 p.m.





Programme Outline

Item	By
Supporting Your Child's ECG Journey	Ms Yap Hwee Hoon Education & Career Guidance Counsellor
Subject Information Talk	Year Head
Discussion with Sec 3 & 4 students	
Q&A	IP Heads

Supporting Your Child's ECG Journey

Sharing by:
Ms Yap Hwee Hoon
Education & Career Guidance Counsellor
Wednesday, 24 May 2023



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 the world of
work

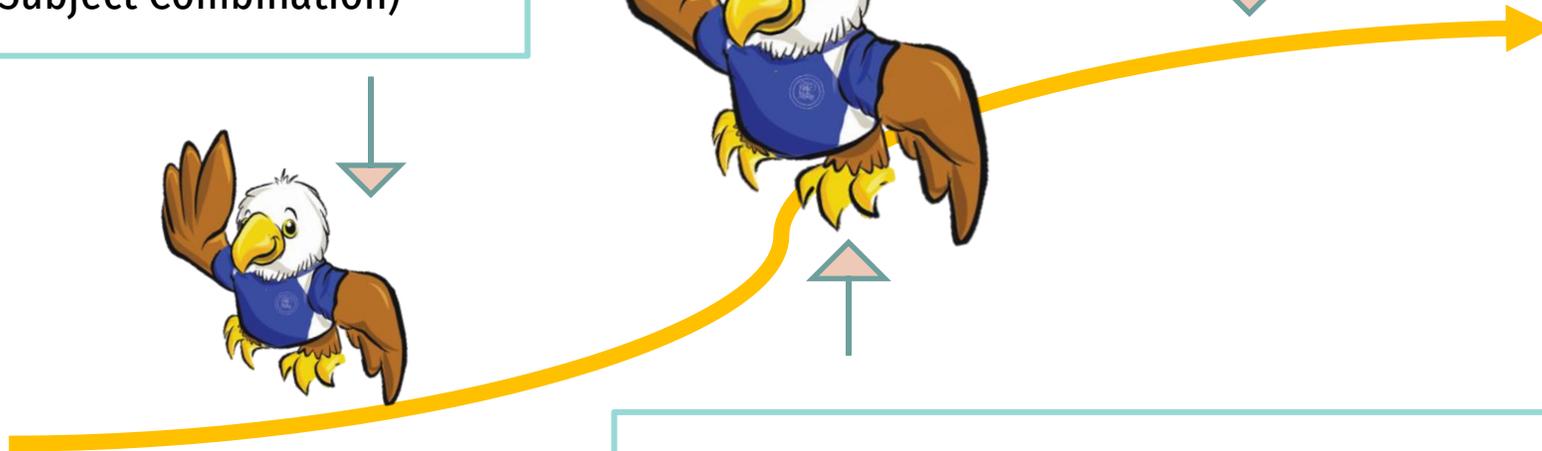


Adulthood



**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)

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



Supporting Your Child's ECG Journey



01

Keeping up to date with our Changing Landscape

02

Understanding my child's needs: Considerations and Implications of Sec 3 subject combination on post-secondary education

03

Holding Parent-Child ECG Conversation

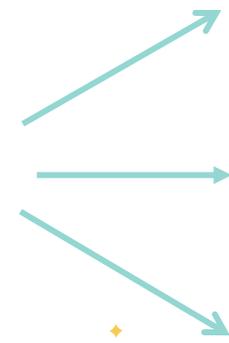


Supporting Your Child's ECG Journey



01

Keeping up to date with our
Changing Landscape



Youth's Aspirations

Industry Landscape

Education Landscape



Kimberly's Career Aspiration



Purpose/Passion

“I feel very strongly about climate change.”

‘I feel very strongly about saving the environment.’

‘want to promote sustainable living and sustainable development’

Acknowledge Parent's concerns

‘they (parents) come from a place of love and concern’

‘we agree to disagree’

‘I know they still love me’

**Parents' affirmation and support are
child's motivation**

Industry Landscape Has Changed

The Green Economy – E.g., Invent Sustainable New Food Source and Process

Cells culture and manufacturing of biologic medicines



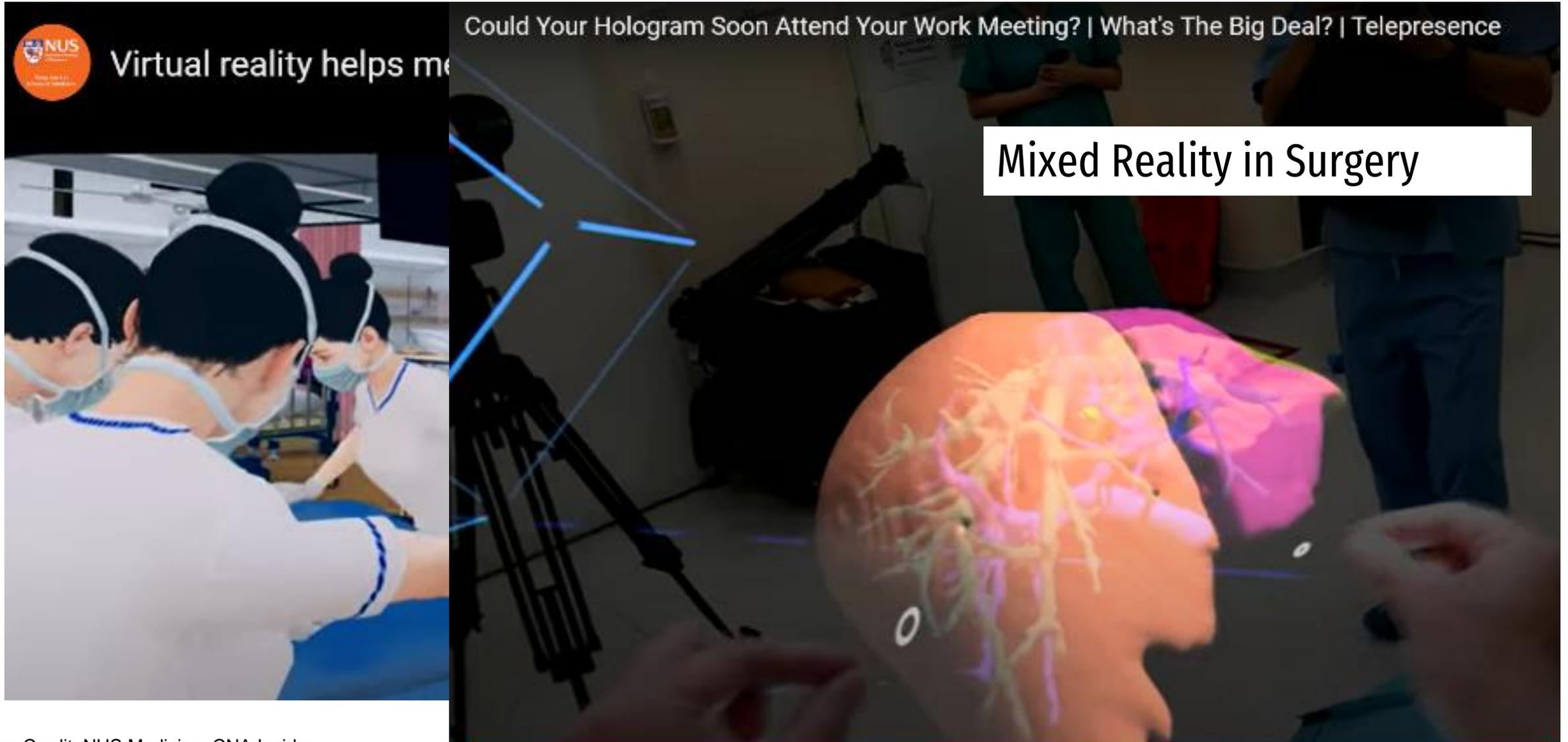
Memory chips manufacturing



High Tech Manufacturing for medicines and memory chips

Industry Landscape Has Changed

The Care Economy – E.g., Healthcare, social service leveraging on technology



16 Critical Core Skills for Future of Work



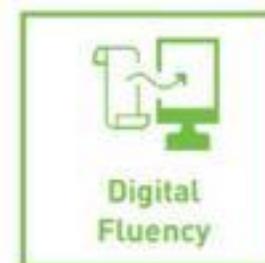
Interacting with Others

Skills to Build Skills

The 16 CCS competencies can be found at the following website:
www.skillsfuture.gov.sg/skills-framework/criticalcoreskills



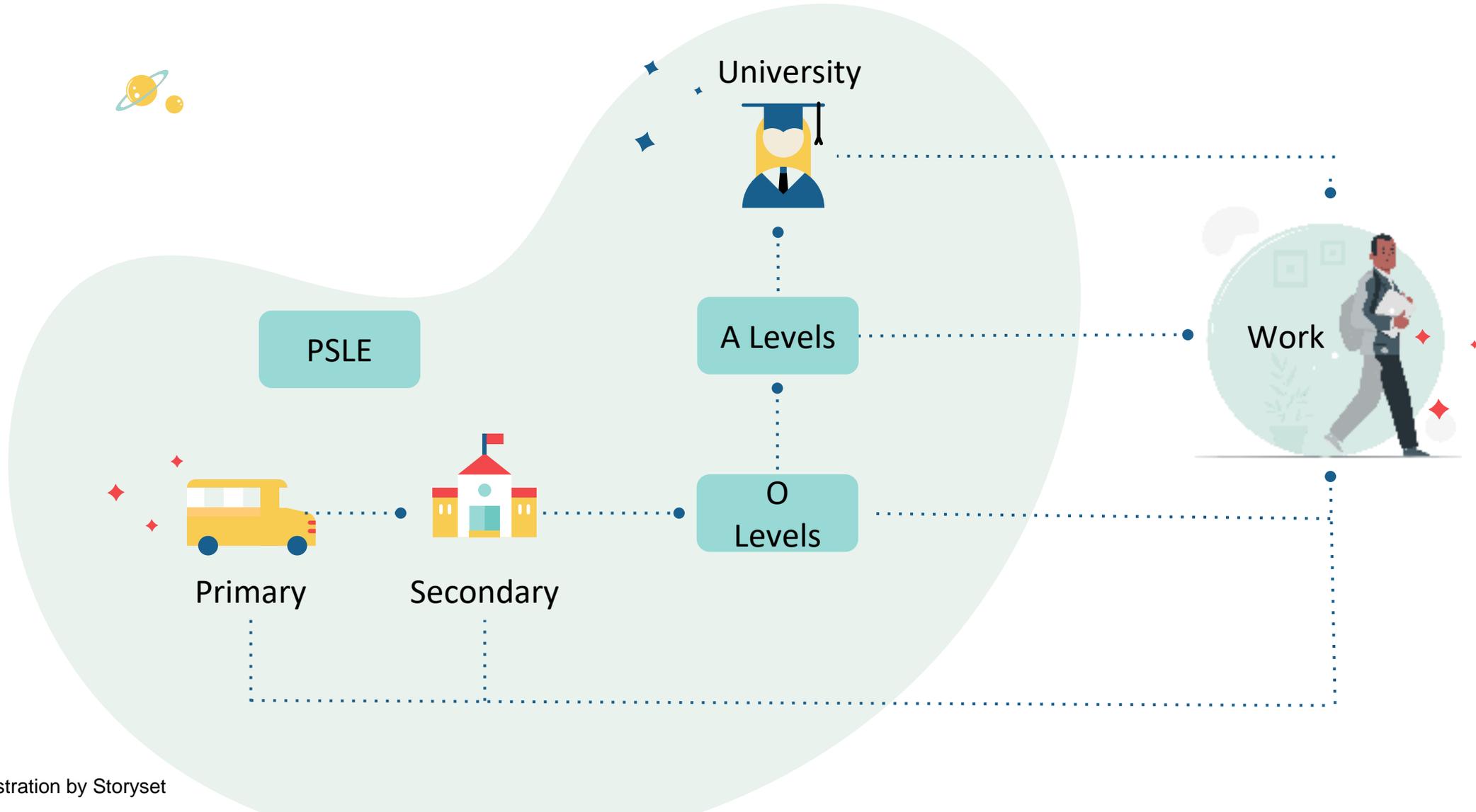
Thinking Critically



Staying Relevant

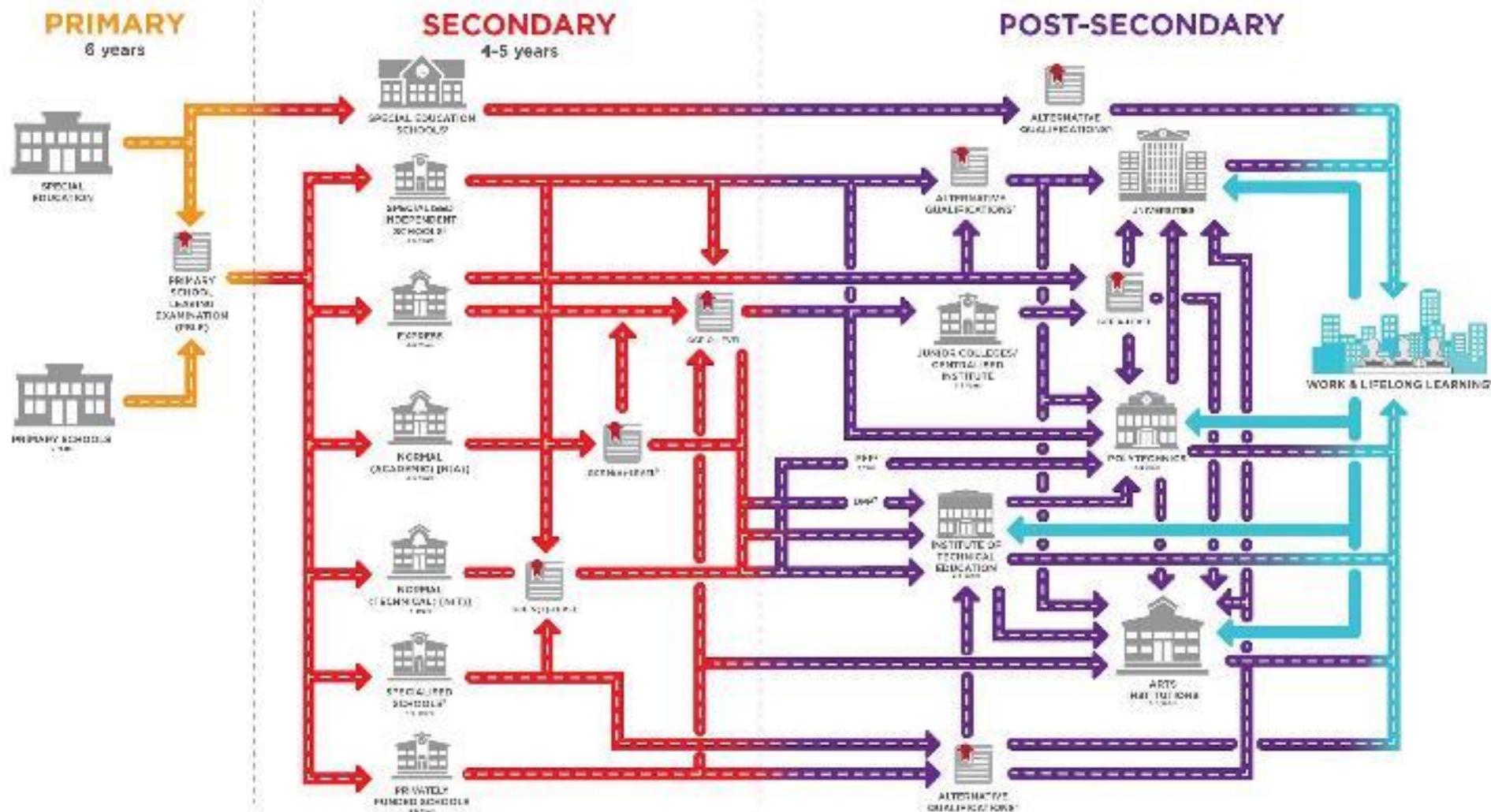
Education Landscape Has Changed

Education Pathway Used To Be Simple

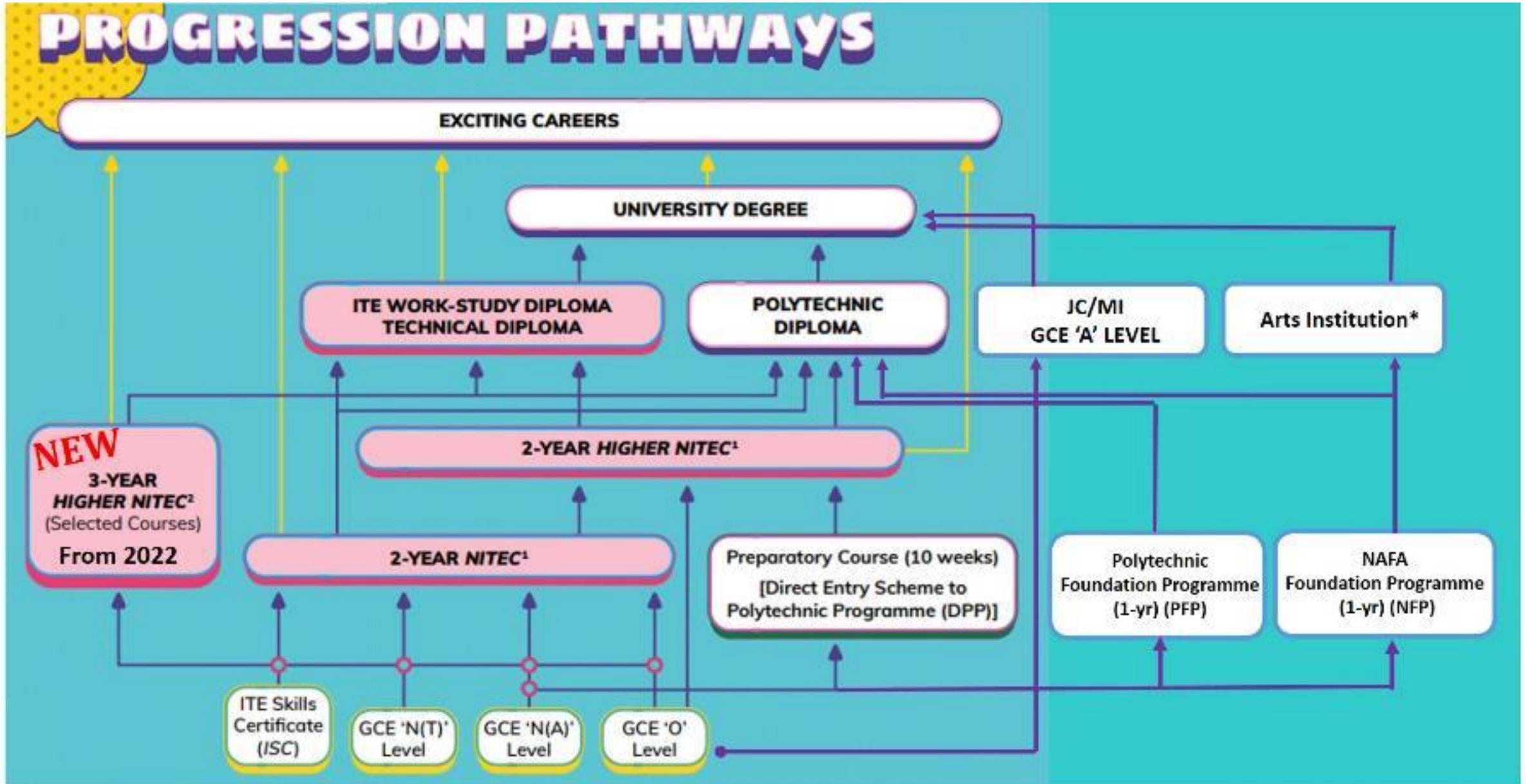


Today The Education Landscape Is Dynamic

Your child has multiple pathways for progression



Multiple Post-Secondary Pathways



Supporting Your Child's ECG Journey



01

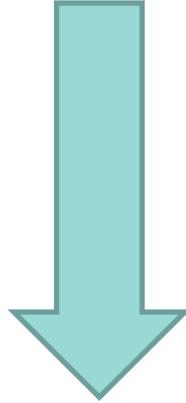
Keeping up to date with our **Changing Landscape**

02

Understanding my child's needs: Considerations and Implications of Sec 3 subject combination on post-secondary education



**Do we need to know about
post-secondary pathways now at Sec 2?**

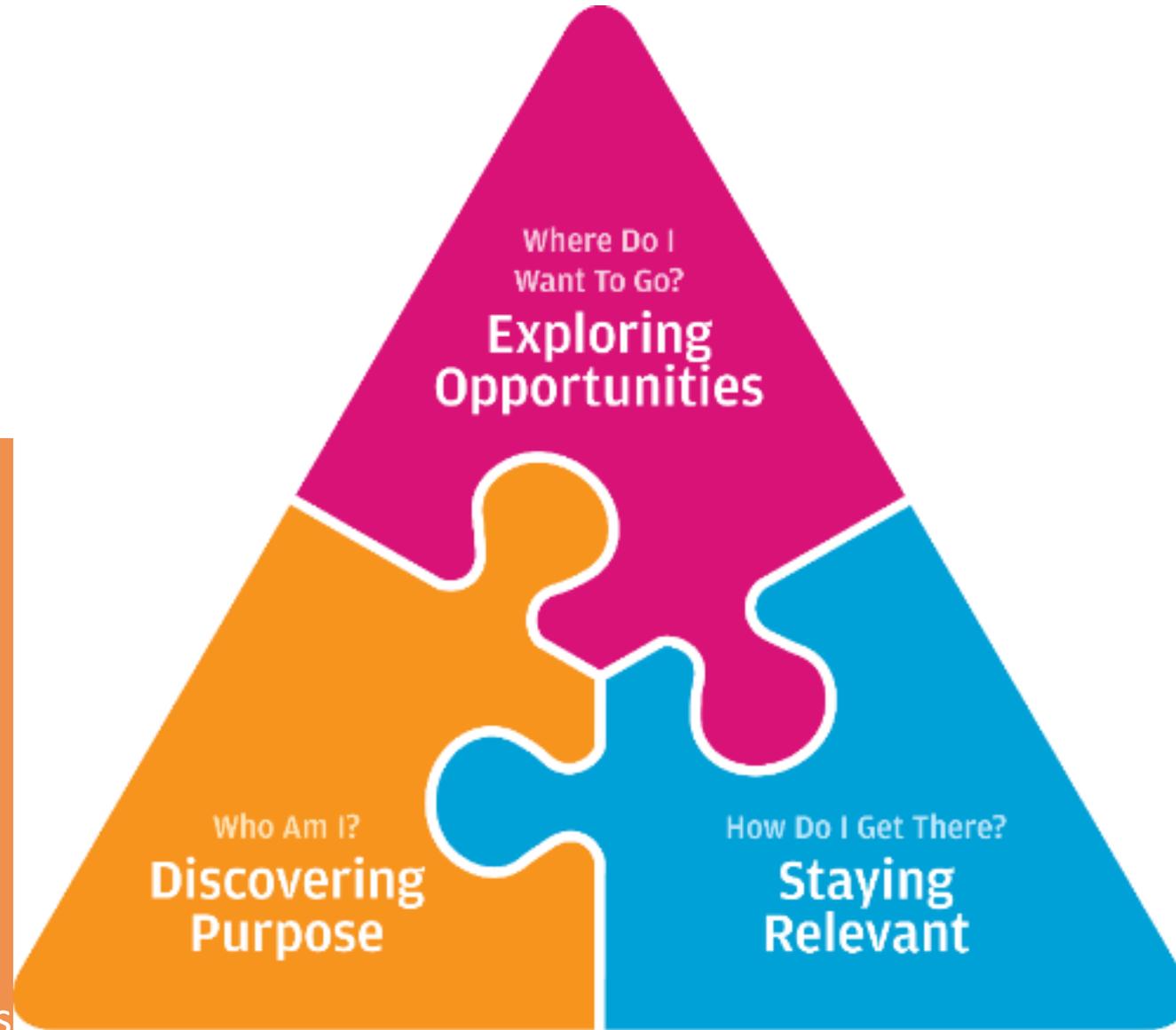


Selecting subject combinations have some connections to
future post-secondary pathways:
**exposure to discipline and self-exploration of interests
and strengths.**

3 ECG Questions To Guide Your Child

Explore your values, interest, personality and strength, areas you wish to contribute to (eg. Tech, design, food)

Through Student Development Activities; CCAs, VIA, workshops learning journeys, subjects interests, etc



Education & Career Guidance

Discovering Purpose: Eg., Sec 2 STEM Career Day



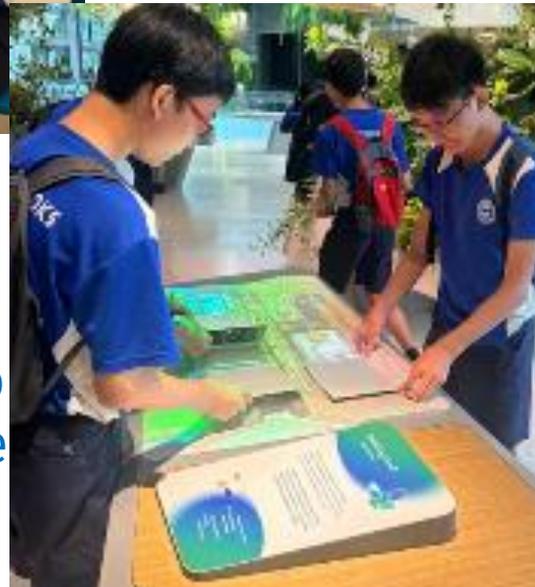
Aeronautic Technology



Air Force Museum



S.E.A Aquarium



Changi Xperience Studio



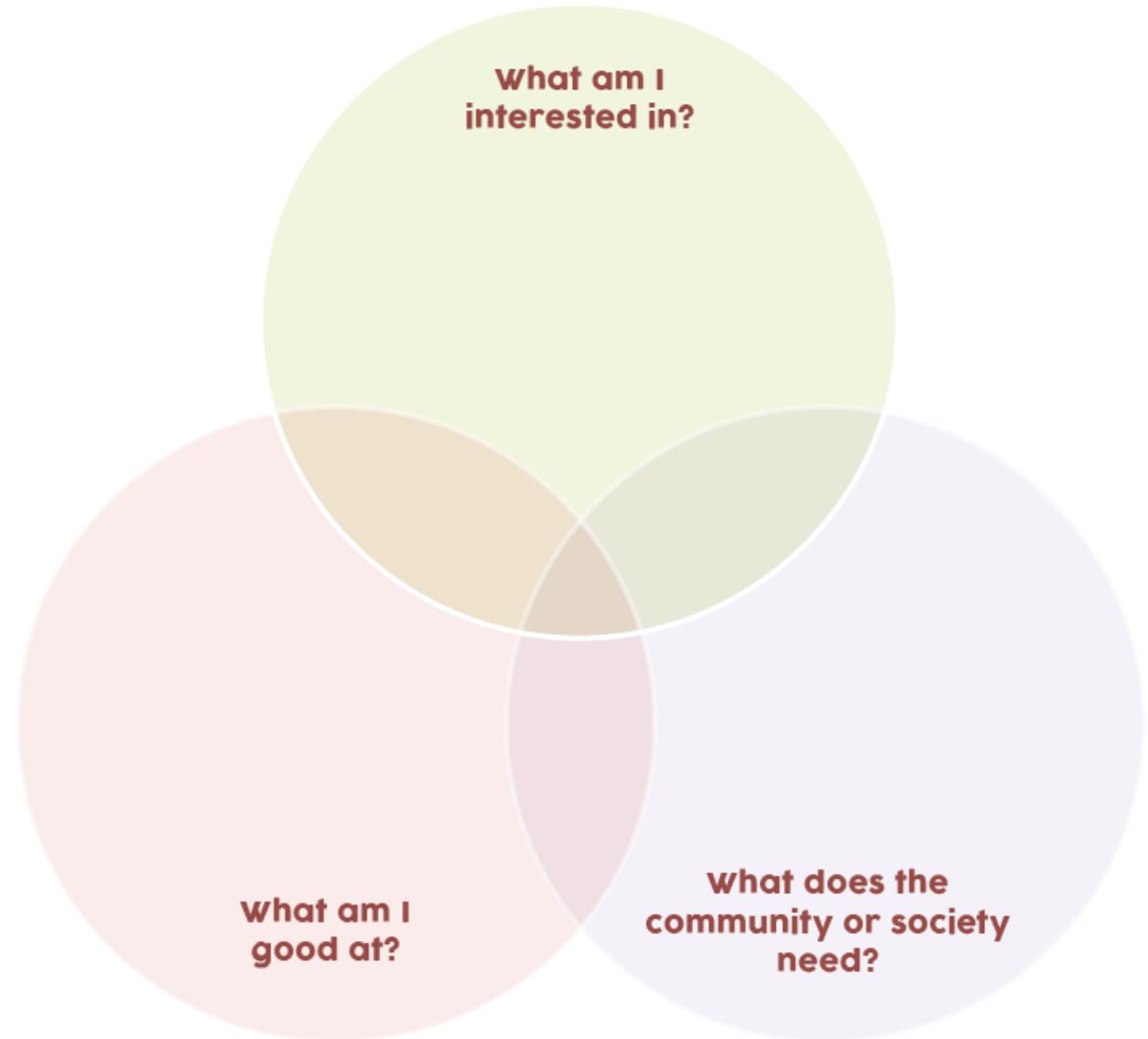
Forensic Science



Sky Greens Vertical Farm

- What you like / don't like?
- Discover about your interest / strength
- Like design, coding, using hands to create things, lab work, investigate and solve problems, etc?

Discovering Purpose in their CCE ECG lesson



3 ECG Questions To Guide Your Child

Explore and sense-make various post-secondary education and career opportunities

Where Do I Want To Go?

Exploring Opportunities

Explore your values, interest, personality and strength, areas you wish to contribute to (eg. Tech, design, food)

Through Student Development Activities; CCAs, VIA, workshops learning journeys, subjects interests, etc

Who Am I?

Discovering Purpose

How Do I Get There?

Staying Relevant

Education & Career Guidance

Explore & Sense-making Education & Career Opportunities



Programmer?
Art Therapist?
Urban Farmer?

Possible Occupation



Creating new AI?
Improve Mental Health?
Improve Sustainability?
Distribute Wealth?

Sense of Purpose /
Area to contribute to



Engineering?
Business?
Humanities? Science
/ Arts?

Poly/ITE/Pre-U/
Arts Institutions EAE /
DSA-JC/PFP

Which Course should I choose?
Which pathways/ admission
exercise to take?

Aligned with the child's purpose / area to contribute to, child's Values, Interest,
Personality, Strength & Skills, Learning Style

ITE Pathway for N & 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

ITE Pathway for N & O Level Students

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



ITE extends partnership with famed French culinary school for 4 more years



Mr Spencer Tay, who currently works in Les Amis, spent three months at French culinary school Institut Paul Bocuse while studying at ITE. PHOTO: KUA CHEE SIONG

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

Nov 17, 2022 | Singapore News Center



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



Industry Partnerships

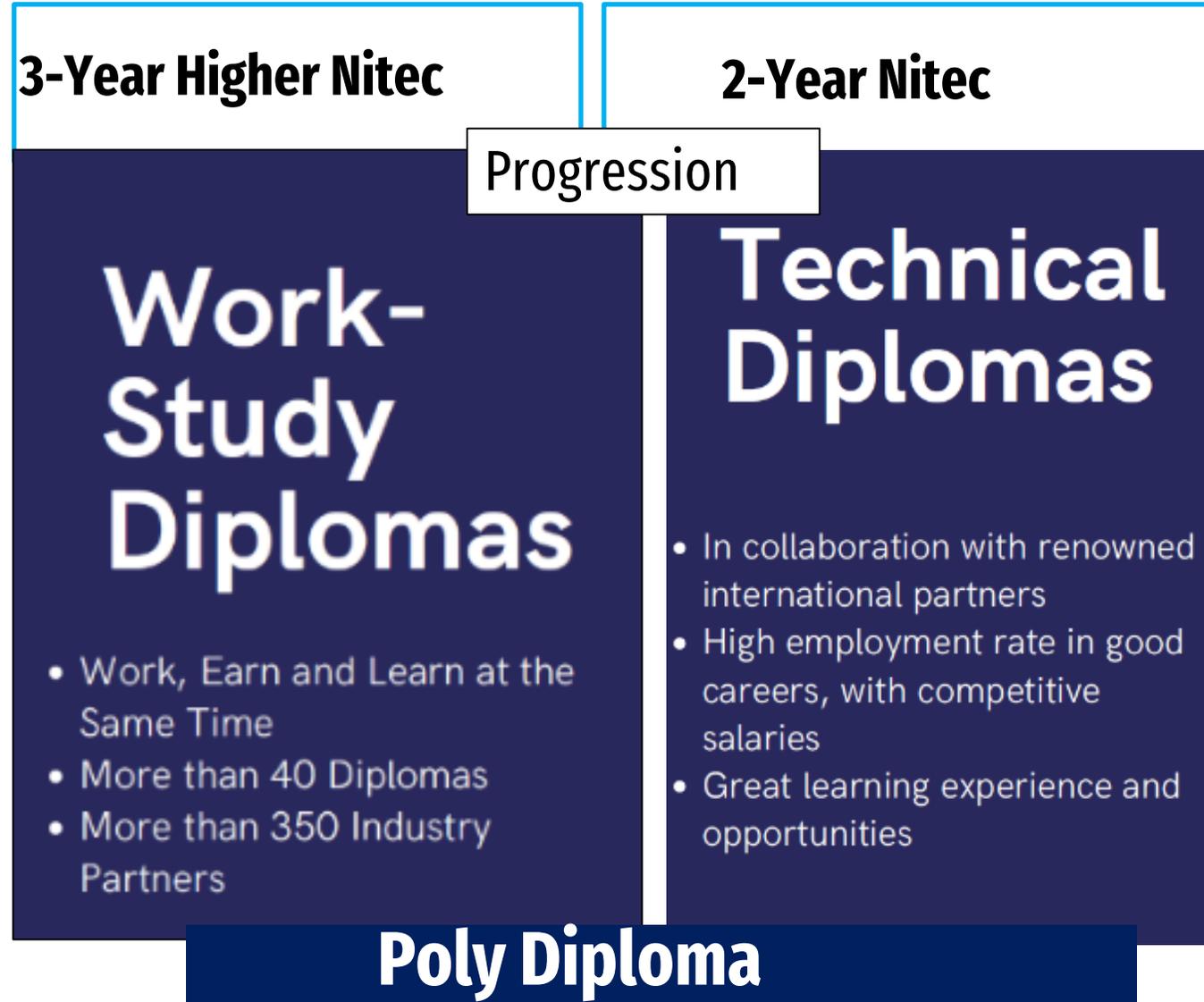
Internships

Competition

Progression to higher education

Post-Secondary Pathway

ITE for N & O-Level Students



Normal Academic Students

ITE DPP (Direct Entry Scheme to Poly Programme)

PFP (Poly Foundation Programme)

Sec 5 O-Level

NFP (Nanyang Academic Fine Arts Foundation)

O-Level Students

GCE A-Level via Junior College / Millennia Institute

Poly Diploma

Private Arts Institution

- Nanyang Academy of Fine Arts
- LASALLE College of The Arts

Progression to various pathways subject to meeting entry requirements

ITE Pathway Relevant Subjects

Relevant Subjects for 2-Year Higher Nitec (O-Level Students)

Depending on course:

- Elementary Mathematics
- Additional Mathematics
- Principles Of Accounts
- Pure Science or Science (Chemistry/Physics)/(Chemistry/Biology)
- Computing

ITE 3-year Higher Nitec / 2-Year Nitec Courses (N & O-Level Students)

Depending on course:

- English
- Mathematics
- Science

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

		L1R5 : For JC Course (Require 6 O-Level subjects)	
L1	First Language	-	English/Higher Mother Tongue
R5	Relevant Subject 1	-	Humanities/Higher Art/Higher Music/Malay (Special Programme)/Chinese (Special Programme)/Bahasa Indonesia
	Relevant Subject 2	-	Mathematics/Science
	Relevant Subject 3	-	Humanities/Higher Art/Higher Music/Mathematics/ Science/ Malay (Special Programme)/Chinese (Special Programme)/Bahasa Indonesia
	Relevant Subject 4	-	Any GCE O-Level subjects (except Religious Knowledge)
	Relevant Subject 5	-	Any GCE O-Level subjects (except Religious Knowledge)
		L1R4 : For MI Course (Require 5 O-Level subjects)	
L1	First Language	-	English/Higher Mother Tongue
R4	Relevant Subject 1	-	Humanities/Higher Art/Higher Music/Mathematics/ Science/ Malay (Special Programme)/Chinese (Special Programme)/Bahasa Indonesia
	Relevant Subject 2	-	Humanities/Higher Art/Higher Music/Mathematics/ Science/ Malay (Special Programme)/Chinese (Special Programme)/Bahasa Indonesia
	Relevant Subject 3	-	Any GCE O-Level subjects (except Religious Knowledge)
	Relevant Subject 4	-	Any GCE O-Level subjects (except Religious Knowledge)

Poly Pathway: Relevant Subjects (R1 & R2)

ELR2B2 (Require 5 O-Level subjects)



	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"> • Social Work • Chinese Studies • Community Development 	<ul style="list-style-type: none"> • Accountancy • Arts Business Management • Common Business 	<ul style="list-style-type: none"> • Advanced & Digital Manufacturing • Data Science • Oral Health Therapy 	<ul style="list-style-type: none"> • Animation, Games & Visual Effects • Landscape Design & Horticulture
R1	Art, Humanities, Geography, History, Literature	Elementary Mathematics OR Additional Mathematics (E or A Maths)		
R2	E or A Maths Art Design & Technology Nutrition & Food Science Geography POA Higher MTL	Art Humanities Geography History Literature POA	Combined Science Biology Chemistry Physics Computing Design & Technology Nutrition & Food Science	Combined Science Biology Chemistry Physics Computing Design & Technology Nutrition & Food Science

Aptitude-Based Admissions In ITE / JC / Poly / Local Universities

THE STRAITS TIMES

SINGAPORE

LOG IN

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 (eg. photos, certificates, skills learn) of their participation.

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

3 ECG Questions To Guide Your Child

- Explore and sense-make various education and career opportunities

Where Do I
Want To Go?
**Exploring
Opportunities**

Explore your values, interest, personality and strength

Eg., CCAs, subjects interest & strength, VIA, hobbies, workshops learning journeys, areas you wish to contribute to (eg. Tech, design,)

Who Am I?
**Discovering
Purpose**

How Do I Get There?
**Staying
Relevant**

- Growth mindset
- Adaptability
- Resilience
- Lifelong Learning

Education & Career Guidance

Supporting Your Child's ECG Journey



01

Keeping up to date with our **Changing Landscape**



02

Understanding my child's needs: Considerations and Implications of Sec 3 subject combination on post-secondary education

03

Holding **Parent-Child ECG Conversation**



Common Questions on Subjects Combination...

Should I choose subjects that I like or I am good at?

How do I choose when I do not know my career aspirations yet?

'What are the subjects required to achieve my career aspiration?

Which education pathway is better for me?



Think about

Field of Study/
General

01

- Business related
- Engineering related
- Environment related
- Art related
- General

Subject requirements
in relation to
post-N & O-Level pathways

02

Selection of
subjects

03

- 5 to 8 (depend on stream)
- Interest in the subject
- Subject strength
- Manage academic rigor

Applying 3 ECG Questions To Guide Your Child

Discovering Purpose
WHO Am I?



Exploring Opportunities
WHERE Do I Want to Go?

Staying Relevant
HOW Do I Get There?

Choose subjects relevant to the post-sec education and industries & jobs

Research the post-secondary education to the industries & jobs

Explore possible industries & jobs

Identify child's interest and strength

Start with child's purpose in mind

- have a broad base combination

- have multiple plans
- keep options open

- hands-on?
- hobby?

- cause to support
- problems to solve

An Illustration - Alex

Discovering Purpose Who Am I?

Strong Interest
in Design and Gaming

Subjects interest & strength

Strong in Art and English



Exploring Opportunities Where Do I Want To Go?

E.g., New Virtual Reality,
Design-related

Staying Relevant How Do I Get There?

Explore & be open for different
subject combi plan

An Illustration - Alex

Design & Technology or Art

Biology or Physics?

Pure Science or Science

Geography or History



Alex Uses The 3 ECG Questions To Guide His Planning

Discovering Purpose
WHO Am I?



Exploring Opportunities
WHERE Do I Want to Go?

Staying Relevant
HOW Do I Get There?

Choose subjects relevant to the post-sec education and industries & jobs

Research the post-secondary education to the industries & jobs

Explore possible industries & jobs

Identify child's interest and strength

Start with child's purpose in mind

- Design course: Art / Design & VR related Tech
- VR Creation: Geo/Hist
- Engineering/design related courses: Physics
- Design related

- Strong in Art and English
- Strong interest in design and gaming

Core Subjects:

- English
- Mother Tongue
- Mathematics

Plan A: 7 subjects

- Physics
- Chemistry
- SS+History
- Design & Tech



Plan B: 6 subjects

- Art
- Science (Chemistry/Physics)
- SS+Geography

Supporting Your Child's ECG Journey

01

Keeping up to date with our **Cha**
Landscape

- Keep updated on post-secondary pathways
- Be aware of emerging trends, industries, skills
- Subject combinations and relations to post-secondary pathways

02

Understanding my child's needs: Considerati
and Implications of Sec 3 subject combination
post-secondary education

- Familiarize yourself with your child's personality and learning style
- Provide opportunities for your child to grow
- Encourage them to speak up and share their opinion even if they are different from yours
- Show love and support which helps your child to grow in confidence

03

Holding **Parent-Child ECG Conversation**

- Have regular ECG conversation
- Introduce them to different industries, (e.g., Get them to talk to your network of friends, relatives from various industries)
- Research and explore industry and institute of higher learning (e.g, visit industry exhibition, attend poly open house)

Walk-in:

Mon, Wed, alternate Fri
8am to 5pm@ECG Room

By Appointment:

- Scan QR Code to book appointment
- <https://go.gov.sg/ecg-northbrooks>

Connect via:

- Email: yap_hwee_hoon@schools.gov.sg
- Telegram: [@ECGC_HweeHoon](https://t.me/ECGC_HweeHoon)



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

EXPLORE
your aspirations,
interest & strength

EXPAND
possibilities for
post-secondary
pathways

CHAT
industries and
job roles to
achieve your
aspirations

DISCUSS
subjects & courses
that align with your
interest & strength



Book Your ECG Appointment

Connect with Ms Yap Hwee Hoon,
YOUR ECG Counsellor



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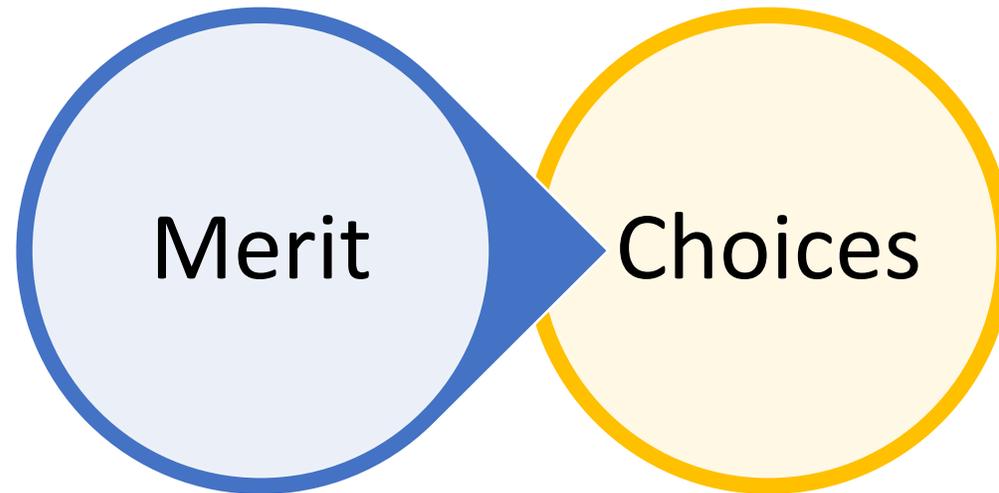
**Sec 3 Subject
Information Talk**

Year Head



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



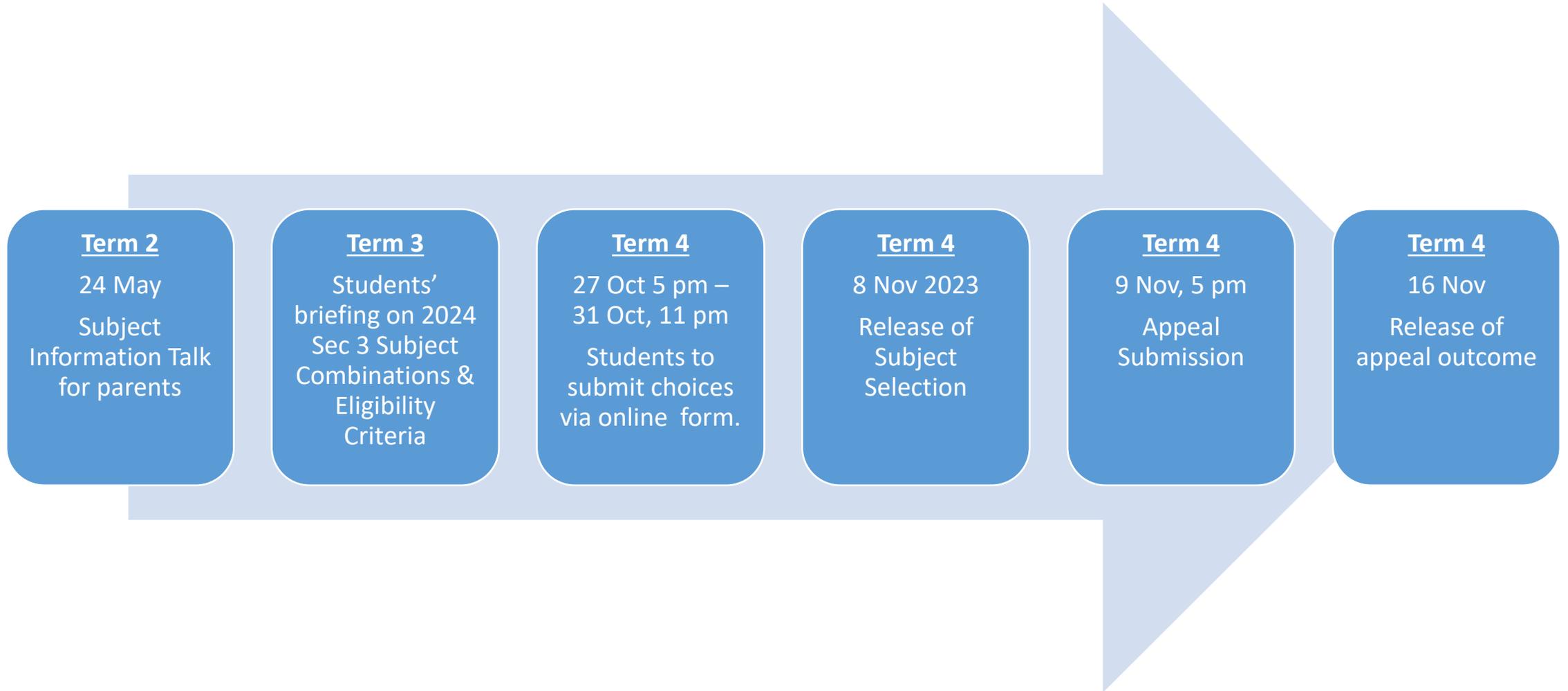
Key Considerations

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

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

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.

Timeline for Subject Selection Exercise



Timeline for Subject Selection Exercise

Term 2

24 May

Subject Information Talk for parents

Term 3

Parents' Information Session 2024
Subject Selection & Eligibility Criteria

Term 4

27 Oct 5 pm – 31 Oct, 11 pm
Students to submit choices via online form.

Term 4

8 Nov 2023
Release of Subject Selection

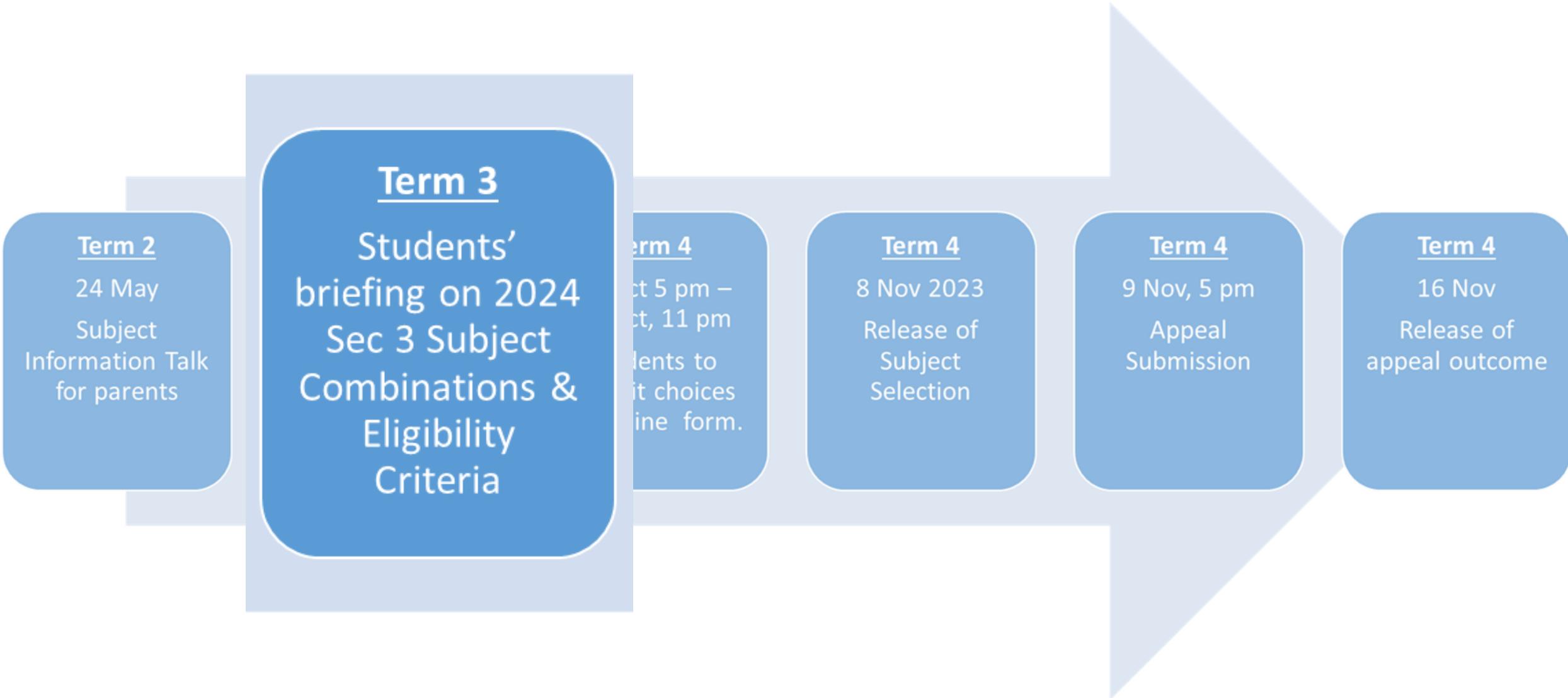
Term 4

9 Nov, 5 pm
Appeal Submission

Term 4

16 Nov
Release of appeal outcome

Timeline for Subject Selection Exercise



Timeline for Subject Selection Exercise

Term 2

24 May

Subject
Information Talk
for parents

Term 3

Students'
briefing on 2024
Sec 3 Subject
Combinations &
Eligibility
Criteria

Term 4

27 Oct 5 pm –
31 Oct, 11 pm

Students to
submit choices
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Timeline for Subject Selection Exercise

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Start the conversation between parent and child

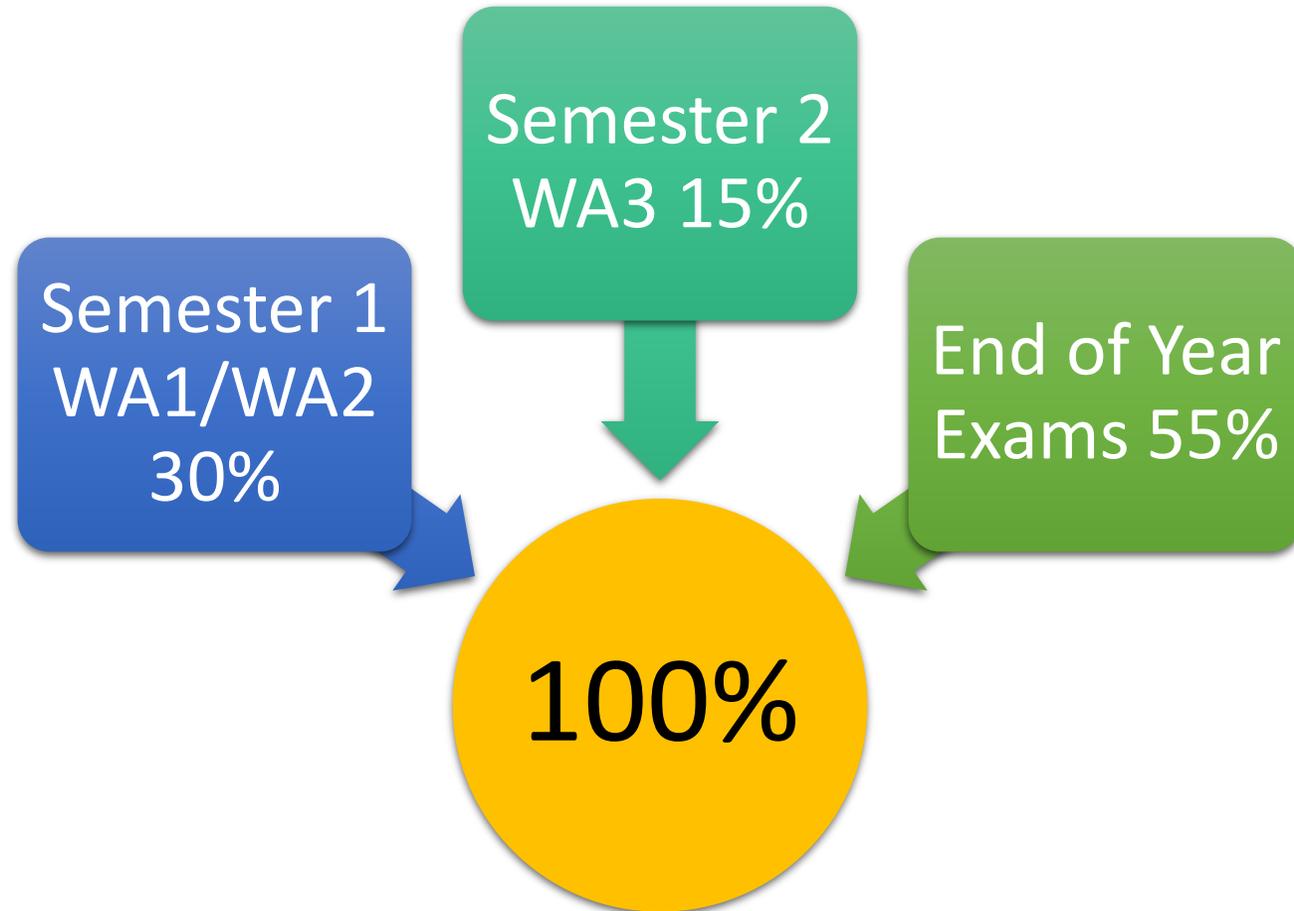
- Explore with your child the various post-secondary pathways.
- Discuss with your child on possible pathways to consider.



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) and 2023 Sec 3 Subject Combinations are also made available via the School Website.

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

2023 Sec 2 NA may laterally transfer to 2024 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.

2023 Sec 2 NT may laterally transfer to 2024 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.

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.



**NORTHBROOKS
SECONDARY SCHOOL**
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**THANK
YOU**

