Supporting Your Child's Education & Career Guidance (ECG) Journey

For Parents of Sec 2 PL-lites

By Ms Lim Hui Ching, ECG Counsellor

Overview of today's sharing

1. Key Considerations in Choosing Subject Combination using the ECG Frame

2. Tips and Resources for Parents to support your child's ECG journey

Key Considerations in Choosing Subject Combination

Interests

What subjects do your child enjoy and why?

+

Strengths

What subjects are your child good at?

+

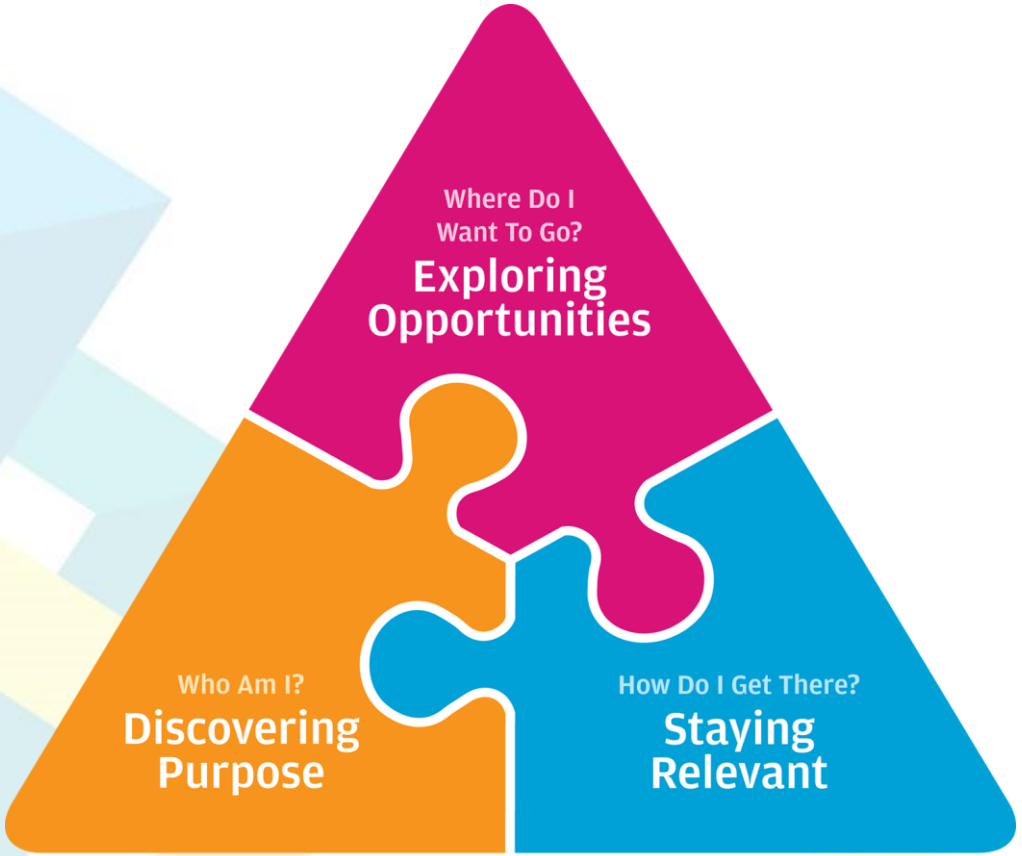
Aspirations

What are your child's education and career goals?

Total Curriculum Load

What might be a suitable number and mix of subjects that your child can manage, taking into consideration the nature and coursework of the subjects?

Using ECG Frame to Make Subject Choices



Education & Career Guidance

1 Discovering Purpose
(Who am I?)
The more you know about yourself, the better your decisions will be

2 Exploring Opportunities
(Where do I want to go?)
Explore the many education and career opportunities open to you

3 Staying Relevant
(How do I get there?)
You can continue to develop yourself by staying adaptable and resilient

1) "Who am I?"

What are your child's strengths or interests?

RIASEC Profiling (done in Lower Sec)

Different people have different career personality types.

People are likely to be satisfied and productive when they work in environments that match their career personality types.

6 RIASEC profile traits, of which most of us have 3 dominant traits.

RIASEC – Career Interests & Related Subjects

Low Kean Yew

REALISTIC (DOER)

- Practical, likes tangible/hands-on work
- Enjoy working with tools/animals/plants

Examples of Interested Fields

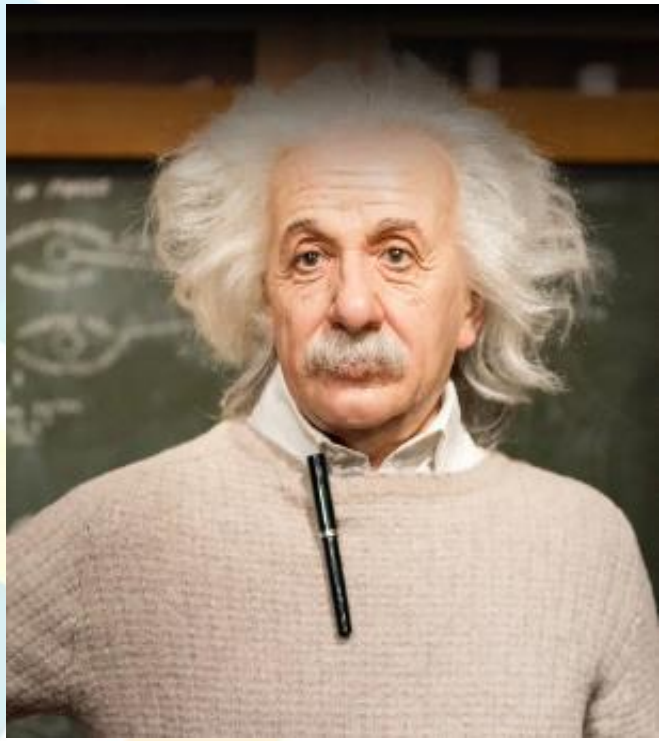
Engineering. Robotics. Healthcare. Sports & Fitness.

Related Subjects

Sciences (B/C/P), Math, Design & Technology, Nutrition & Food Science

Note: These lists are not exhaustive.

RIASEC – Career Interests & Related Subjects



Albert Einstein

INVESTIGATIVE (THINKER)

- Curious and precise
- Likes to know why and how things work

Examples of Interested Fields

Applied Science, Biomedical Science, Computer Science, Forensics

Related Subjects

Sciences (B/C/P), Math, Geography, Design & Technology

Note: These lists are not exhaustive.

RIASEC – Career Interests & Related Subjects

Leonardo da Vinci

ARTISTIC (CREATOR)

- Intuitive, creative
- Performing/playing musical instruments
- Creating artwork, designing, writing

Examples of Interested Fields

Mass Communication, Performing Arts, Film & Video Production, Media, Design, Architecture

Related Subjects

Languages, History, Literature, Art, Music, Design & Technology

Note: These lists are not exhaustive.

RIASEC – Career Interests & Related Subjects

Mother Teresa

SOCIAL (HELPER)

- Caring, empathetic
- Likes helping, guiding and encouraging people
- Developing relationships

Examples of Interested Fields

Education, Psychology, Social Work, Healthcare, Human Resource

Related Subjects

Languages, Biology, History, Literature, Social Studies

Note: These lists are not exhaustive.

RIASEC – Career Interests & Related Subjects

Steve Jobs

ENTERPRISING (PERSUADER)

- Energetic. Likes to influence and lead others.
- Giving presentations/speeches
- Leading and managing people/projects

Examples of Interested Fields

Business, Banking & Finance, Retail, Tourism, Law

Related Subjects

Languages, Math, History, Literature, Principles of Accounts, Social Studies

Note: These lists are not exhaustive.

RIASEC – Career Interests & Related Subjects

Warren Buffett

CONVENTIONAL (ORGANISER)

- Organised, detail-oriented, systematic
- Enjoy working with numbers and managing data
- Like structure and predictability

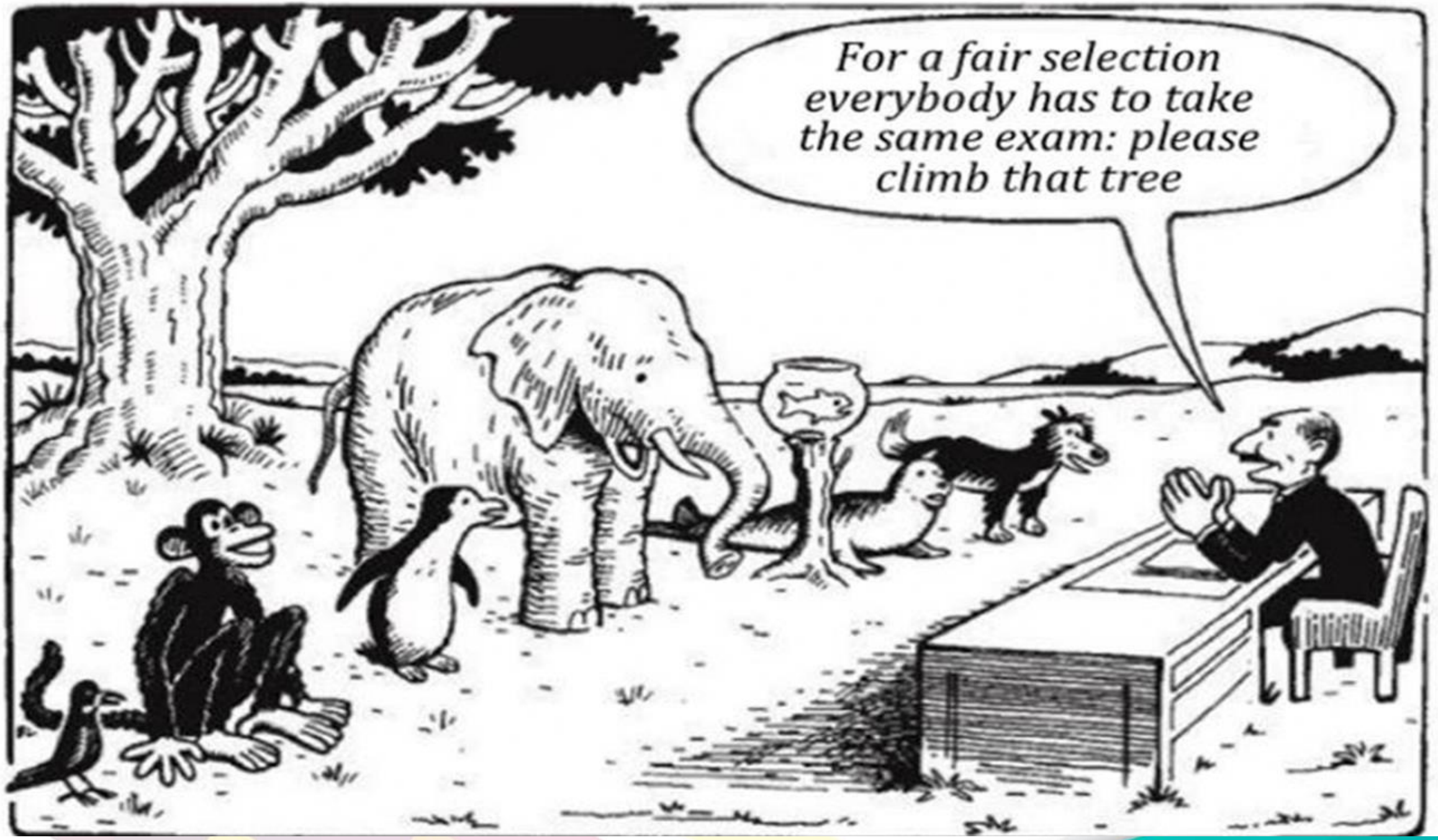
Examples of Interested Fields

Accounting, Audit, Compliance & Quality Assurance, Data Analysis, Office Administration, Operations

Related Subjects

Math, Computer Applications (CPA), Principles of Accounts

Note: These lists are not exhaustive.


For a fair selection everybody has to take the same exam: please climb that tree

Who Am I?
Discovering Purpose

Reflecting on Strengths

ECG

Creating & fixing things

Expressing through writing

Managing facts & figures

Generating ideas

Understanding complex concepts

Subjects & Aptitude

Sciences

Biology	Chemistry	Physics
Demonstrate knowledge and understanding in relation to scientific definitions, concepts, theories, as well as applications with their social, economic and environmental implications. Use and organise information to solve problems, including manipulating numerical and other data, identifying patterns, reporting trends, drawing inferences, making predictions and proposing hypothesis Plan investigations, select techniques for practical coursework/experiments		
• Content heavy and memory intensive • Psychomotor skills to handle knife for practice and pencil for drawing • Flexibility in applying key biology terms to answer questions	• Practical work may involve all senses, including identification of colour and smell • Experiments may involve chemicals and fire	• Concept dependent • Questions revolve around key concepts • Involves calculation and measurements

For combined sciences, some difficult topics from pure Science are removed.
Refer to www.seab.gov.sg for more information on the subject syllabus.

Subjects & Aptitude

Humanities

Geography	History	Literature
• Content heavy, involves concepts and memory work • Requires essay writing skills and ability to relate to real world examples • Suitable for students who work well with structures and routines and are interested in physical and societal world	• Content heavy, involves intensive memory work • Requires essay writing and inference skills • Suitable for students with interest in world history	• Requires good language and essay writing skills • Suitable for students who are able to analyse and read between the lines • Check the books/text that your child's school will be using

For combined humanities, content will be lesser.
Refer to www.seab.gov.sg for more information on the subject syllabus.

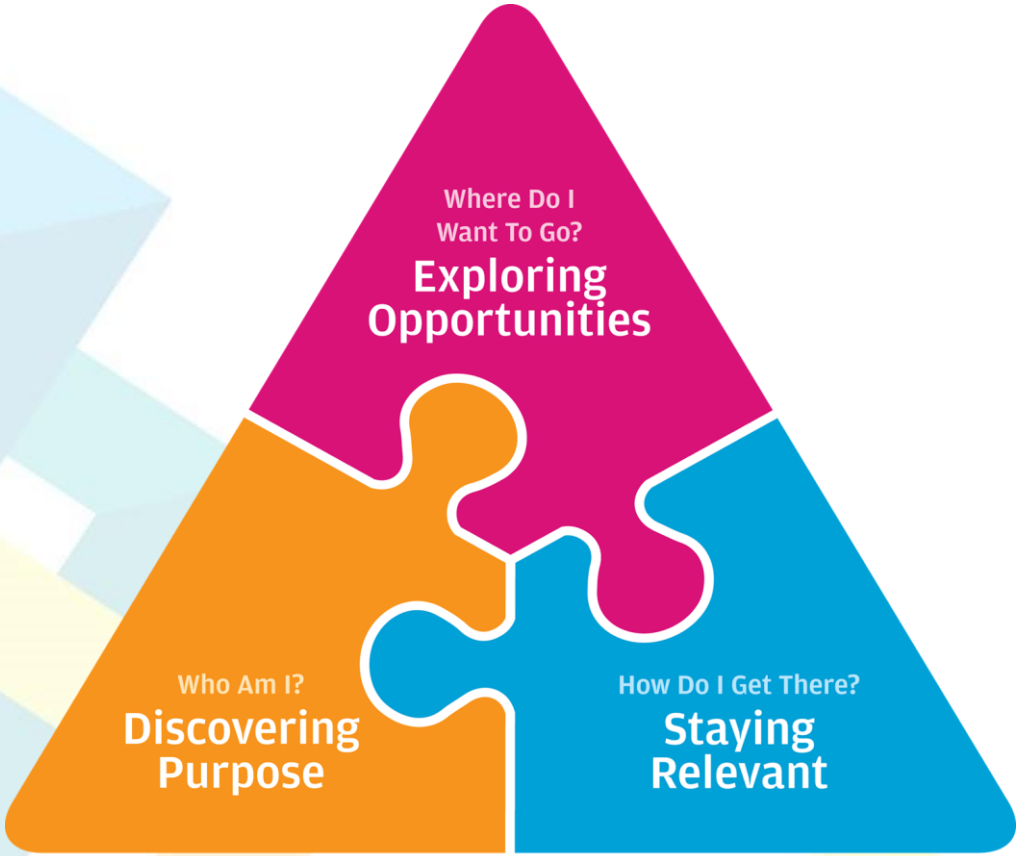
Subjects & Aptitude

Additional Math (A Math)

- Involves algebra, geometry, trigonometry and calculus
- Assumes knowledge of O-level Mathematics (E Maths)
- Steeper learning curve and faster pace
- Prepares for JC H2 Math

Refer to www.seab.gov.sg for more information on the subject syllabus.

Using ECG Frame to Make Subject Choices



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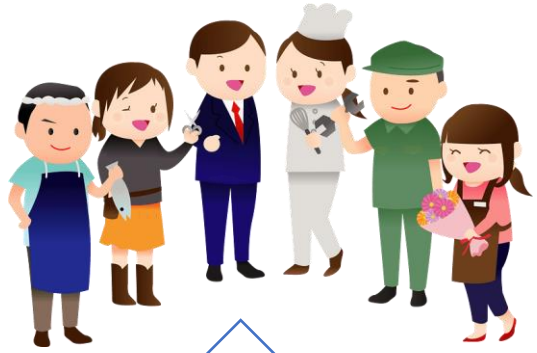
2) "Where do I want to go?"

There are many possible pathways that are worth taking and opportunities for continuous learning.

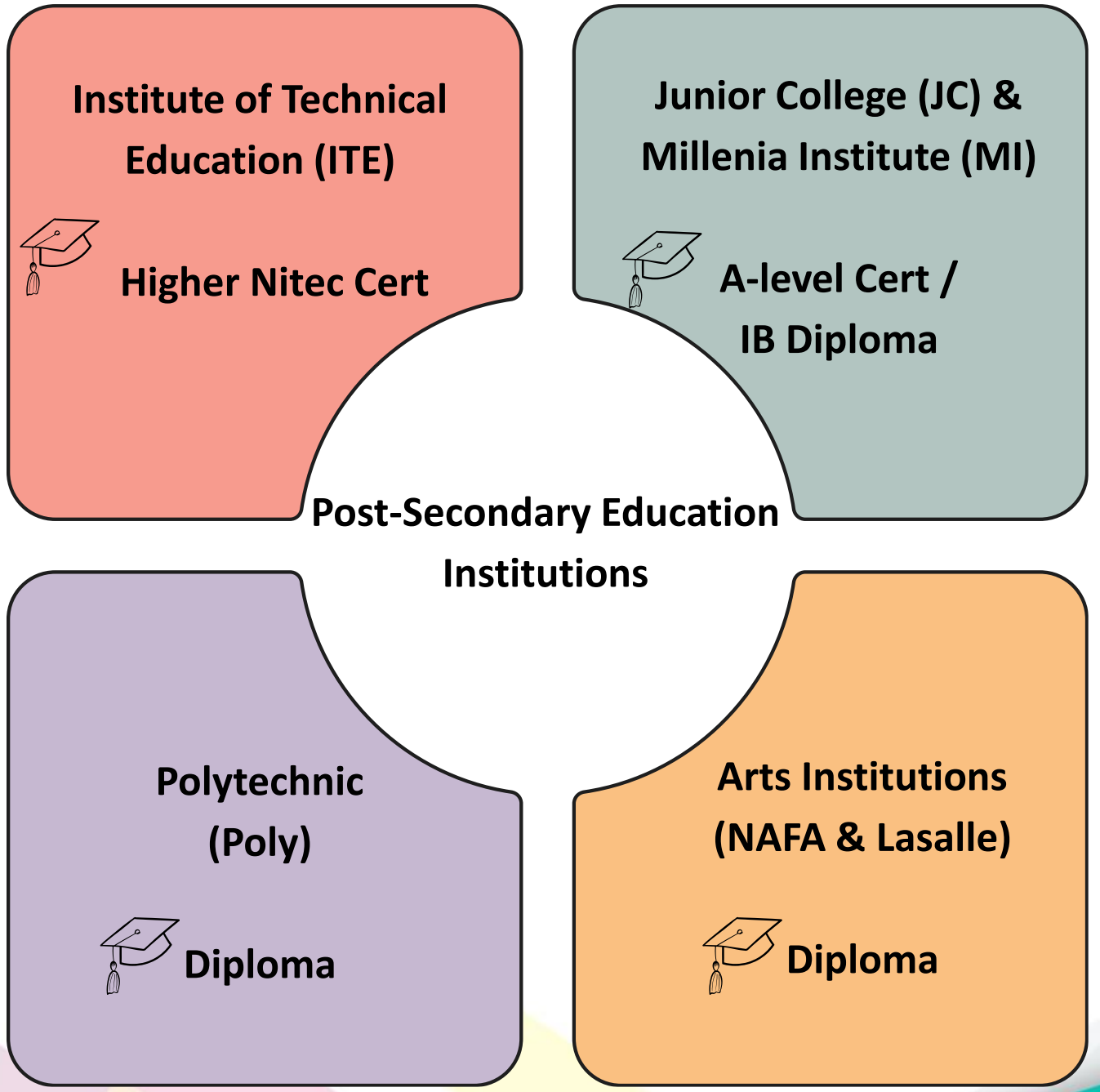


Secondary 2	**Secondary 4**	**Post-Tertiary**	**Adulthood**
Selection of Subject Combination	Choice of JC/MI, Polytechnic or ITE	Further education or the world of work	Career Aspiration

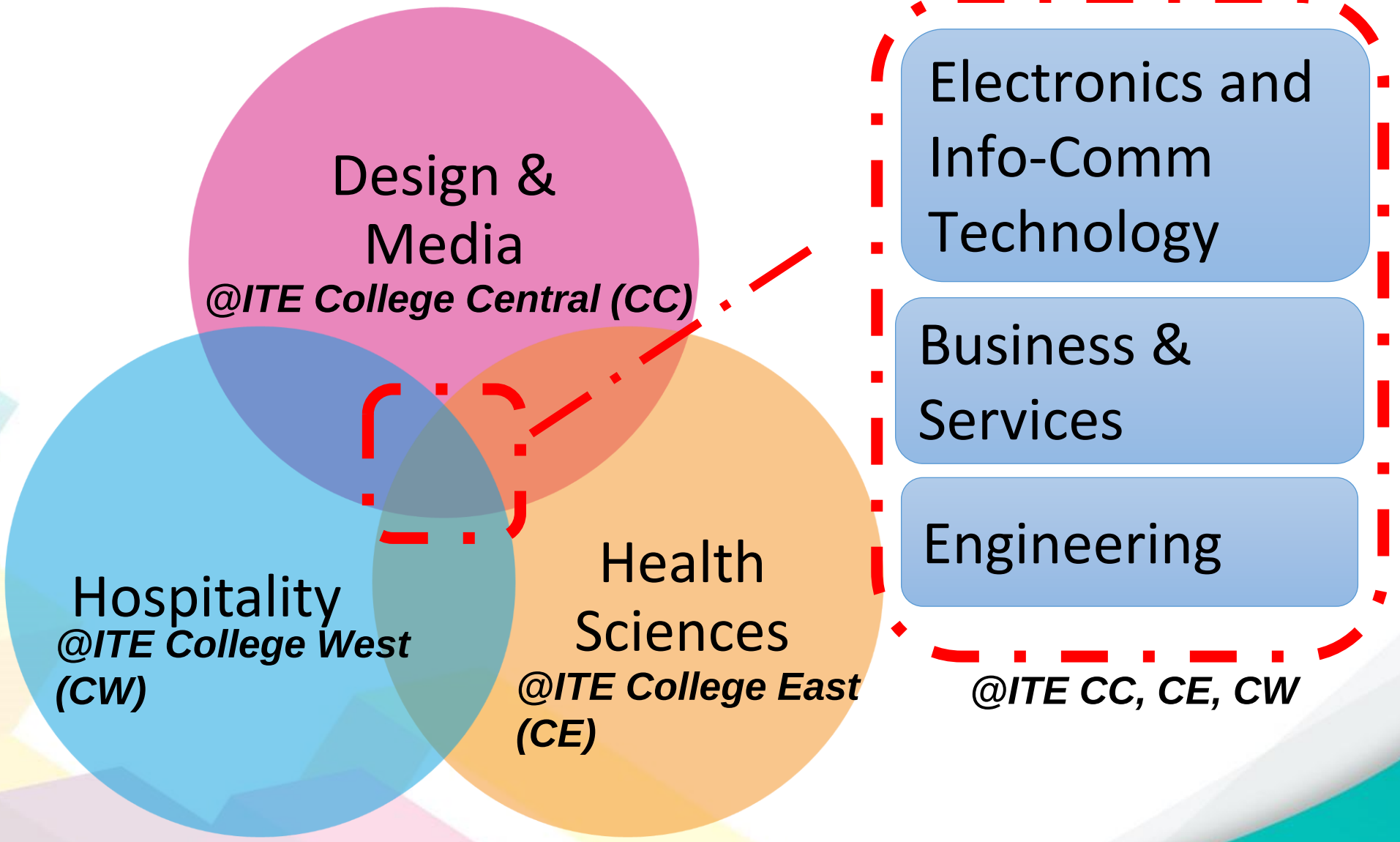
Overview of Post-Secondary Education Institutions

	ITE	Poly	MI	JC
Duration	2 to 3 years	3 years	3 years	2 years
What is it	Industry-relevant technical education courses focusing on practical training to enable students to be career-ready.	Industry-relevant courses providing hands-on, practice-based learning and work attachments with industry partners.	Academic curriculum prepares students to sit for A-level exams or IB Diploma*. Students typically take about 7 subjects.	
Certification	Higher National ITE Certificate (Higher Nitec)	Poly Diploma	A-level Cert	A-level Cert / IB Diploma*
Progression pathways	ITE work-study diploma / technical diploma; Poly diploma. Eligible for university admission after diploma.	University degree	University degree **IB Diploma:* *ACS (Independent),* *St Joseph's Institution,* *SOTA and Singapore Sports School.*	

Institute of Technical Education



ITE Colleges



ITE College Central

ITE College East

ITE College West

Diploma (ITE, Poly, Private)

University

Higher Nitec Certificate

ITE Y1 entry:
3 years

ITE Y1 entry:
3 years

ITE Y2 entry:
2 years

ITE Y1 entry:
3 years

Good exam results in Y1S1, progress to Y2

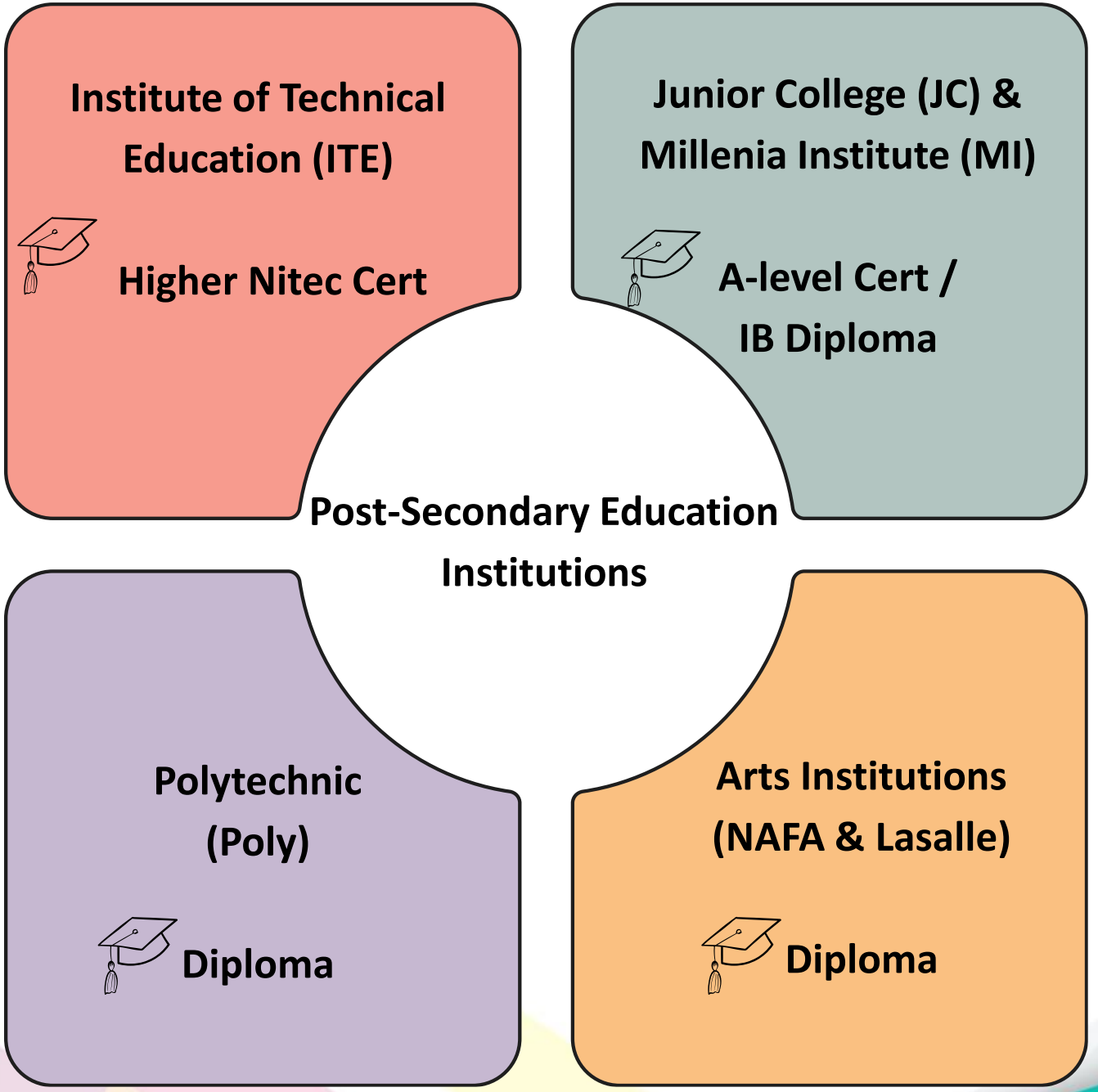
G1

G3

G2

ITE Y2 entry
To qualify, ELMAB3<=19 for 5 G2
(Any G3 will be mapped to G2)

4 G1



NANYANG POLYTECHNIC

ngee ann polytechnic

REPUBLIC POLYTECHNIC

Singapore Polytechnic

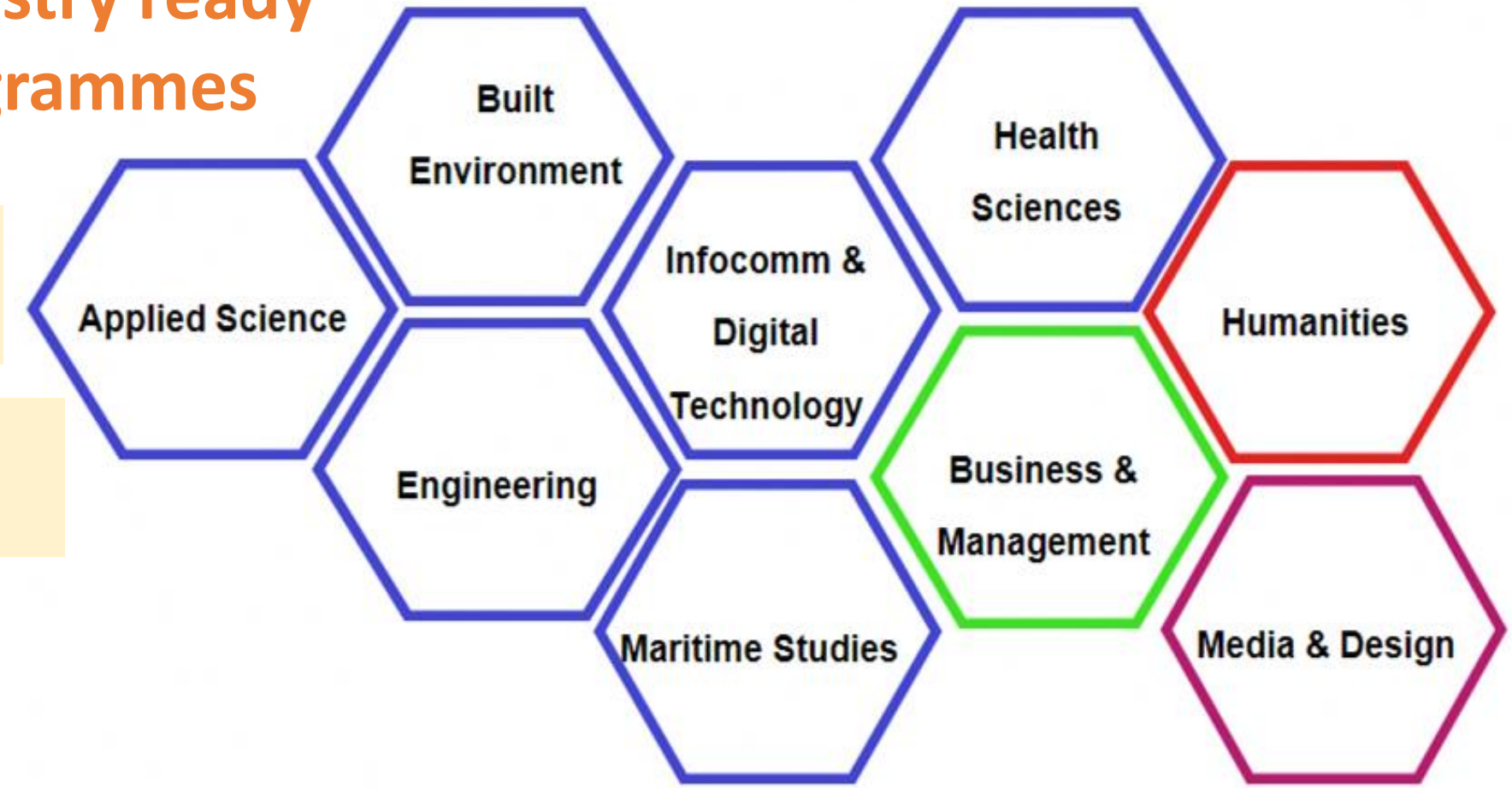
Temasek POLYTECHNIC

Fields of Study in Polytechnics

Industry ready Programmes

3Yr Diploma –
at least 4G3 + 1G2

3+1 Yr Diploma (PFP) –
at least 5G2



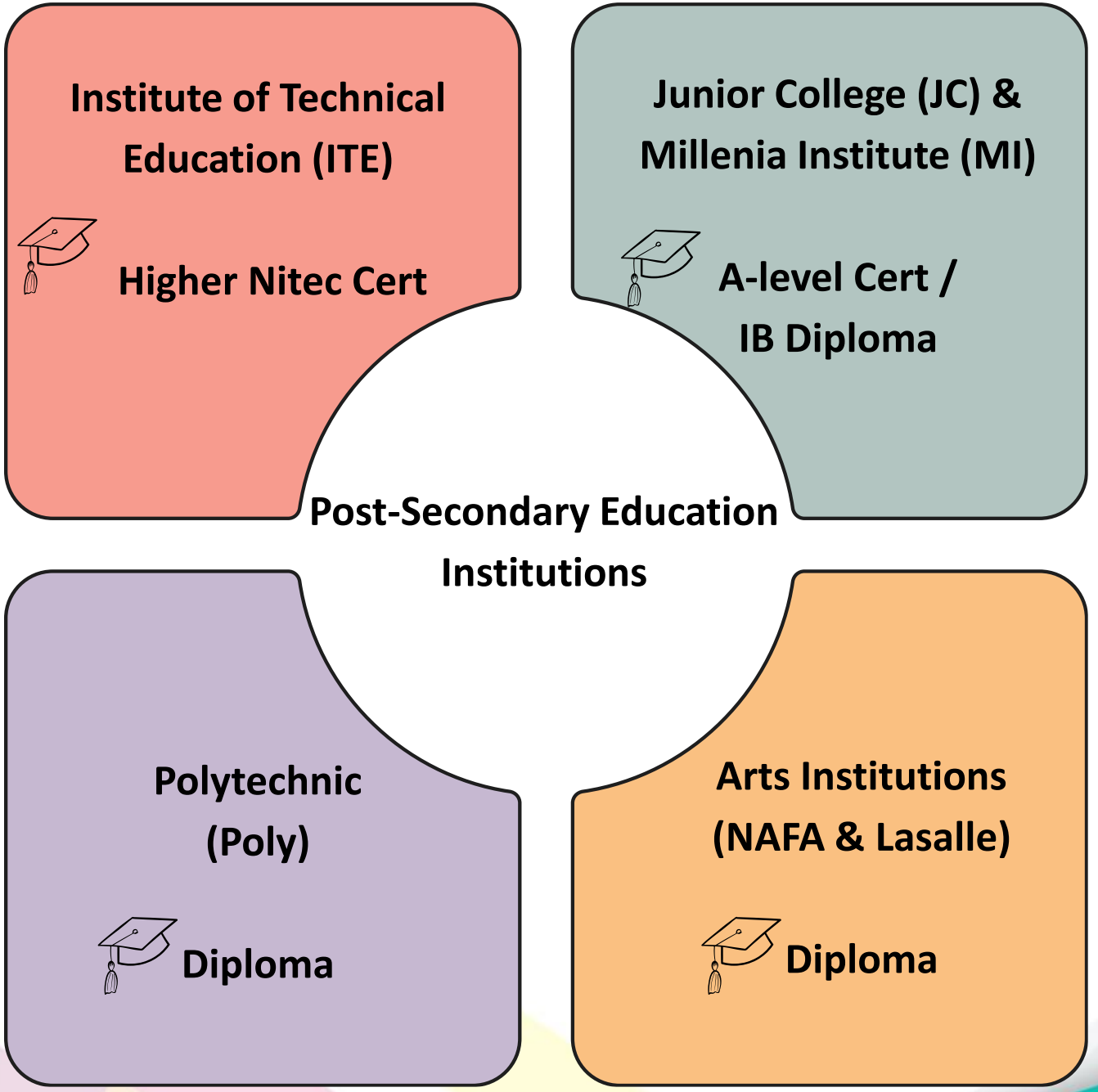
Poly Foundation Programme (PFP)

Admission to PFP through CLUSTERS, no longer by course.

- ELMAB3 [G2] ≤ 12 (Any G3 grade will be mapped to G2 grade)
- Eligibility to join PFP **DOES NOT GUARANTEE** success in application!
- Based on **ACADEMIC MERIT** & **NUMBER OF VACANCIES PER CLUSTER**
- Choose desired diploma course by the end of Foundation year.
- Placement in diploma course is subject to academic merit and number of vacancies per diploma course.

SCAN THIS QR CODE to see PFP clusters and relevant Poly diploma courses.

Institution	Cluster	Polytechnic Year 1 Course
NYP	Sciences	Common Science Programme
NYP	Sciences	Applied Chemistry
NYP	Sciences	Biologics & Process Technology
NYP	Sciences	Pharmaceutical Science
NYP	Sciences	Food Science & Nutrition
NYP	Sciences	Oral Health Therapy
NYP	Sciences	Chemical & Pharmaceutical Technology
NYP	Sciences	Nursing

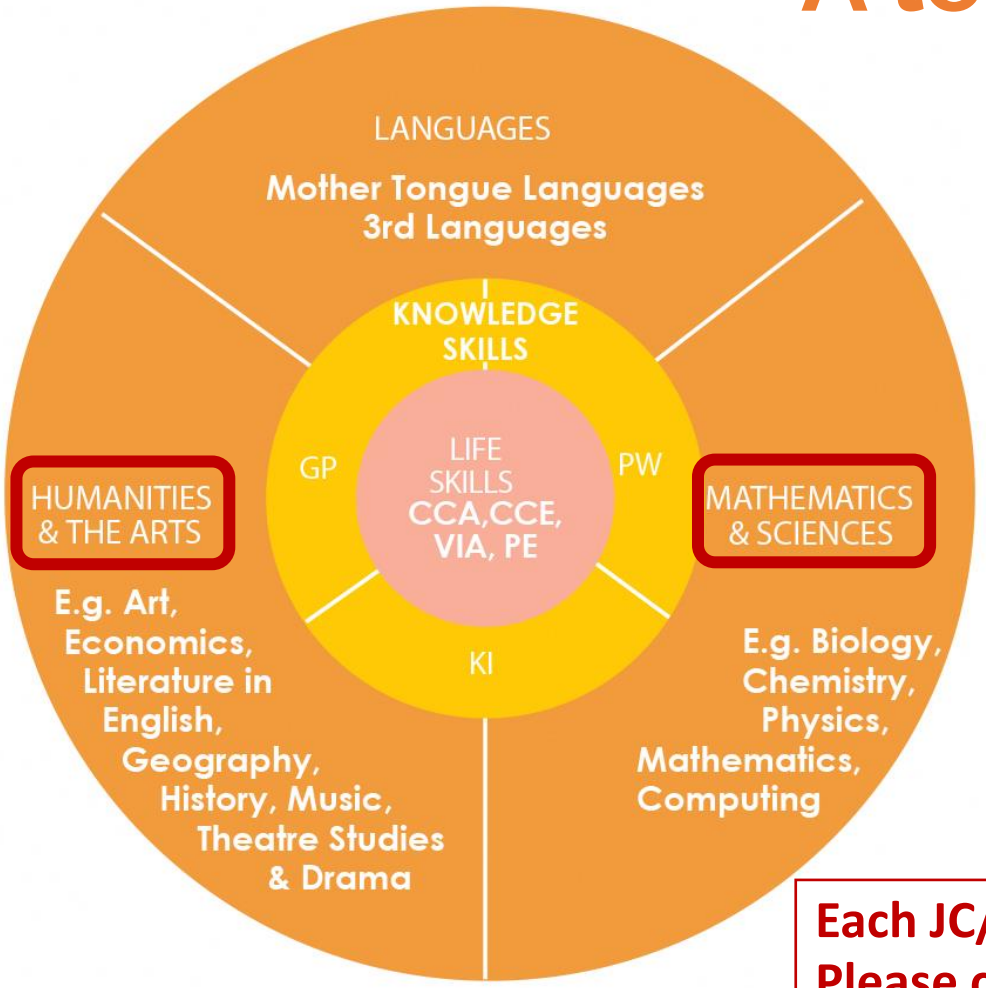

Institute of Technical Education (ITE)
Higher Nitec Cert
Junior College (JC) & Millenia Institute (MI)
A-level Cert / IB Diploma
Post-Secondary Education Institutions
Polytechnic (Poly)
Diploma
Arts Institutions (NAFA & Lasalle)
Diploma

L1R4 for JC & MI

JC Admission: L1R4 ≤ 16
MI Admission: L1R4 ≤ 20

Subjects		Subject level required
L1	English Language/ Higher MTL	G3
R1	**Humanities**	
R2	**Mathematics/ Science**	
R3	**Humanities/ Mathematics/ Science**	
R4	Any G3 subject *(except Religious Knowledge)*	
Total number of subjects required for computation = 5		5 G3

A level programme



H1	H2	H3
H1 is half of H2 in breadth but similar to H2 in depth.	Equivalent to 'A' Level subjects prior to 2006.	H3 builds on H2 in knowledge and skills, and provides opportunity for in-depth study.

Usual subject combination:

3 H2s + 1 H1 content subjects
(one of which must be contrasting)
+ H1 General Paper* + H1 Project Work* + MT

Science stream – contrasting subject must be Humanities/Arts.
Arts stream – contrasting subject must be Maths/Sciences.

Each JC/MI offers different subject combinations with different criteria. Please check individual JC websites.

MOE School Finder

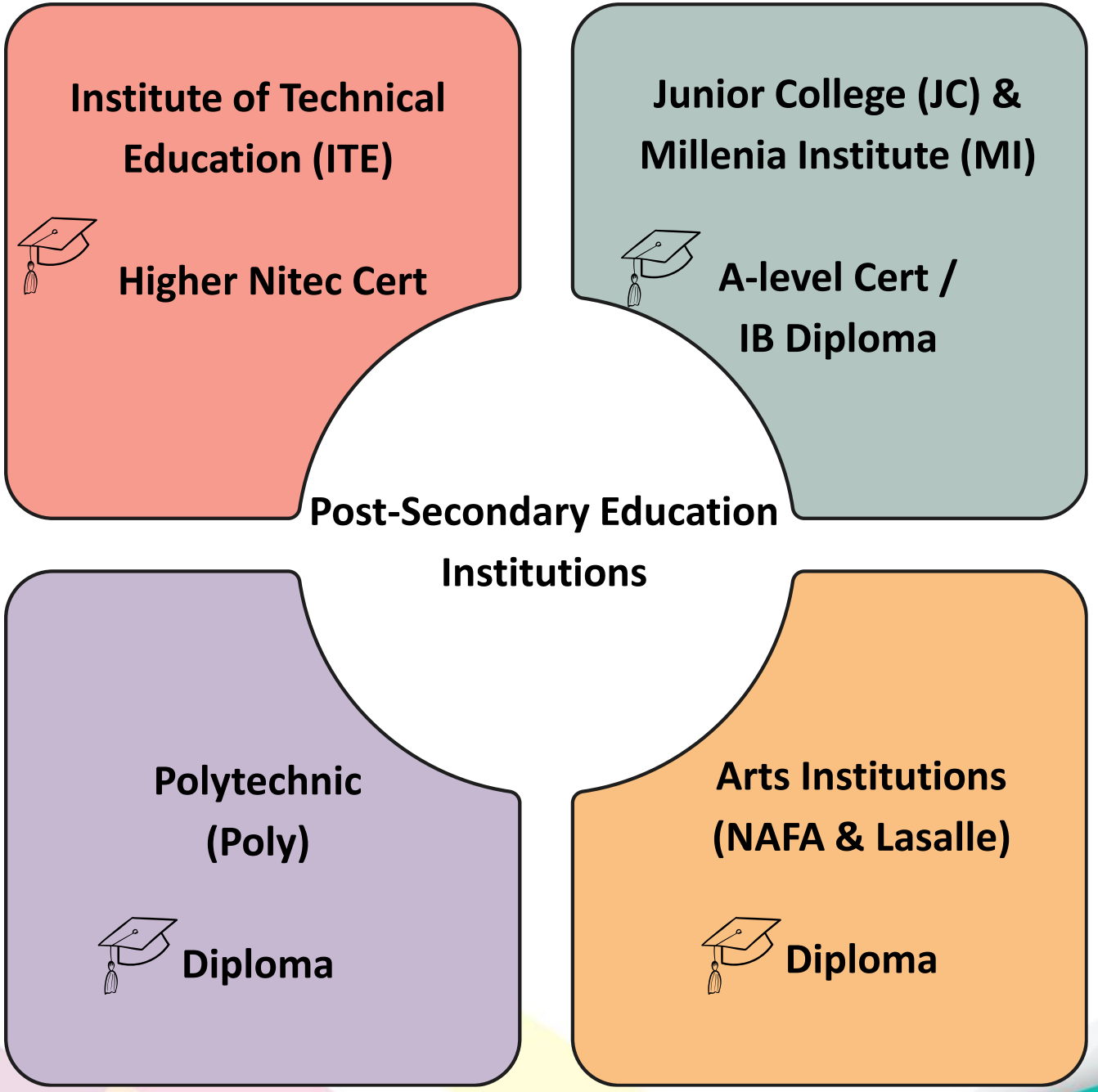
International Baccalaureate

Offered at:

- ACS (Independent)
- St Joseph's Institution
- SOTA
- Singapore Sports School

3 Core subjects +
3 Higher level subjects +
3 Standard level subjects

Students will have to meet the stipulated requirements of some subjects and requirements may differ for each IB school. Please check the respective school websites for details.



NAFA
Nanyang Academy of Fine Arts

LASALLE
COLLEGE OF THE ARTS

Arts Institutions (NAFA & Lasalle)

Diploma programmes in the **visual and performing arts**, such as music, theatre, dance, interior design, and fashion design.

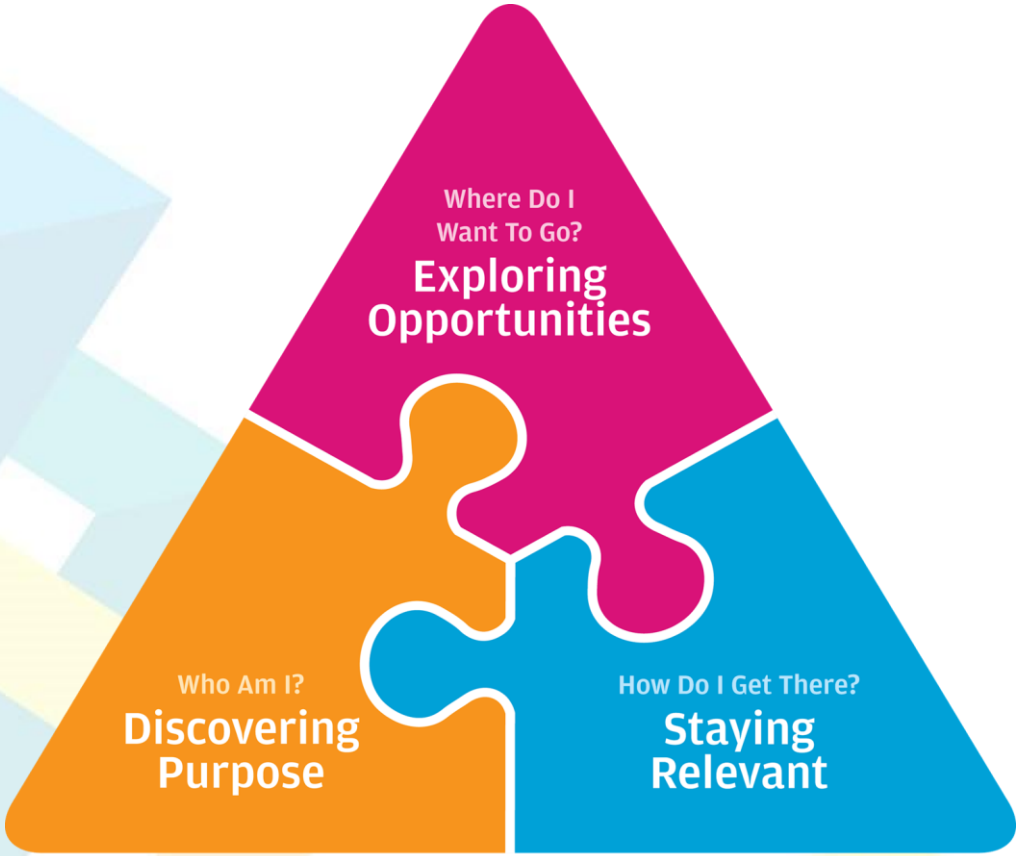
Click on the respective icons below to find out more about curriculum and admissions.

NAFA
Nanyang Academy of Fine Arts

LASALLE
COLLEGE OF THE ARTS

PAYA LEBAR MGS
LOOK UP – LIFT UP

Using ECG Frame to Make Subject Choices



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3) “How do I get there?”

- **Consider The practicalities**
- **Criteria** for your child’s desired subject combination?
- Overall **workload** and how can your child **work towards her goal**?

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

Mdm Lee Lin Yee, Divisional Director at MOE's Educational Technology Division, ex-Head of MOE Sciences Branch

"We have designed the curriculum such that students who offer Combined Science can still move on to take H2 Science at the A-Levels." Students need to offer three H2 subjects and one H1 subject at the A-Level exams to advance to university (H1 subjects have about half the content of H2 subjects).

The popular notion that the Triple Science stream offers students the most options is also somewhat overstated, she says. At the Yong Loo Lin School of Medicine at the National University of Singapore, for example, Triple Science is not a prerequisite. Students would need H2 passes in Chemistry, and either Biology or Physics, at the A-levels or the International Baccalaureate diploma. The medical school also admits students with a good grade point average (GPA) from selected diploma courses in the polytechnics.

If students have certain careers in mind, they may browse polytechnic and university websites and look for the course criteria: Not many polytechnic courses insist on a particular Pure Science subject for admission either, she advises.

Begin with the end in mind

Use the MOE Course Finder to explore with your Child

CourseFinder

Explore courses based on aggregate type, score, type of institute and area of interest.

Select the institutions you want to explore:

- INSTITUTE OF TECHNICAL EDUCATION
- JUNIOR COLLEGES AND MILLENNIA INSTITUTE
- POLYTECHNICS
- UNIVERSITIES

https://go.gov.sg/moe-coursefinder

Live demonstration of how a student interested in a Poly Diploma course in the Health Sciences can use the **MOE CourseFinder**

- Shows minimum entry requirement and subject pre-requisites
- Shows career prospects

Live demonstration of how a student interested in a Bachelor degree in Medicine and Surgery can use the **MOE CourseFinder**

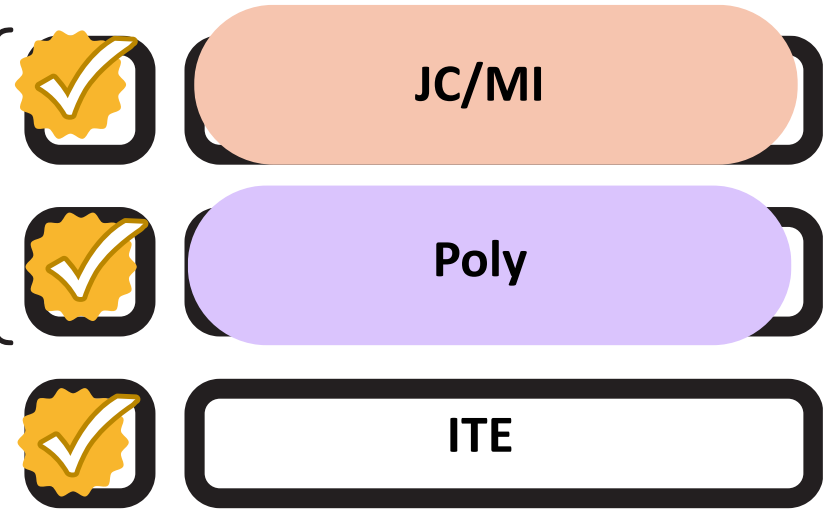
- Shows minimum entry requirement and subject pre-requisites
- Shows indicative grade profile (IGP)
- Shows career prospects

To do medical degree in Singapore (NUS and NTU), all forms of post-sec education are acceptable: **A-level, IB or Poly diploma**.

- A-level students need to have good passes in H2 Chemistry and EITHER H2 Bio OR H2 Physics.
- IB students similarly need to have good passes in HL Chemistry and EITHER HL Bio OR HL Physics.
- Poly students need to have good GPA and relevant diploma courses (usually health science-related or science-related courses). As each poly has different diploma courses, it is best to check NUS and NTU admissions website for pre-requisites.

Pathways to a career in STEM

G3 English and G3 Math are considered part of the Relevant subjects (L1R4 for JC/MI, ELR2B2 for Poly).



Science stream: typically includes H2 Math and one or two H2 Sciences.

- To take H2 Math, Add Math is generally recommended to ease the transition.
- To take H2 Science, a relevant Pure Science subject is generally recommended.
- Possible to offer Combined Science although taking 2 H2 Science subjects in JC with Combined Science is not encouraged.

Refer to **poly course pre-requisites** as each course has different minimum entry requirements and subject requirements but **generally not crucial to take Additional Math or Pure Sciences in sec sch**.

Pathways to a career in Teaching (NIE)

Minimum qualifications:

- **A-level**
- **IB Diploma**
- **Poly Diploma**

No specific subject combination

Pathways to a career in Psychology

NTU, SUSS, SMU:

- A-level applicants with good grades in Math and English (General Paper / Knowledge & Inquiry)
- Most/all diplomas would be eligible to apply.

NUS:

- No subject pre-requisites.

Tips and Resources for Parents to support your child's ECG journey

Have a Two-way Conversation with your Child

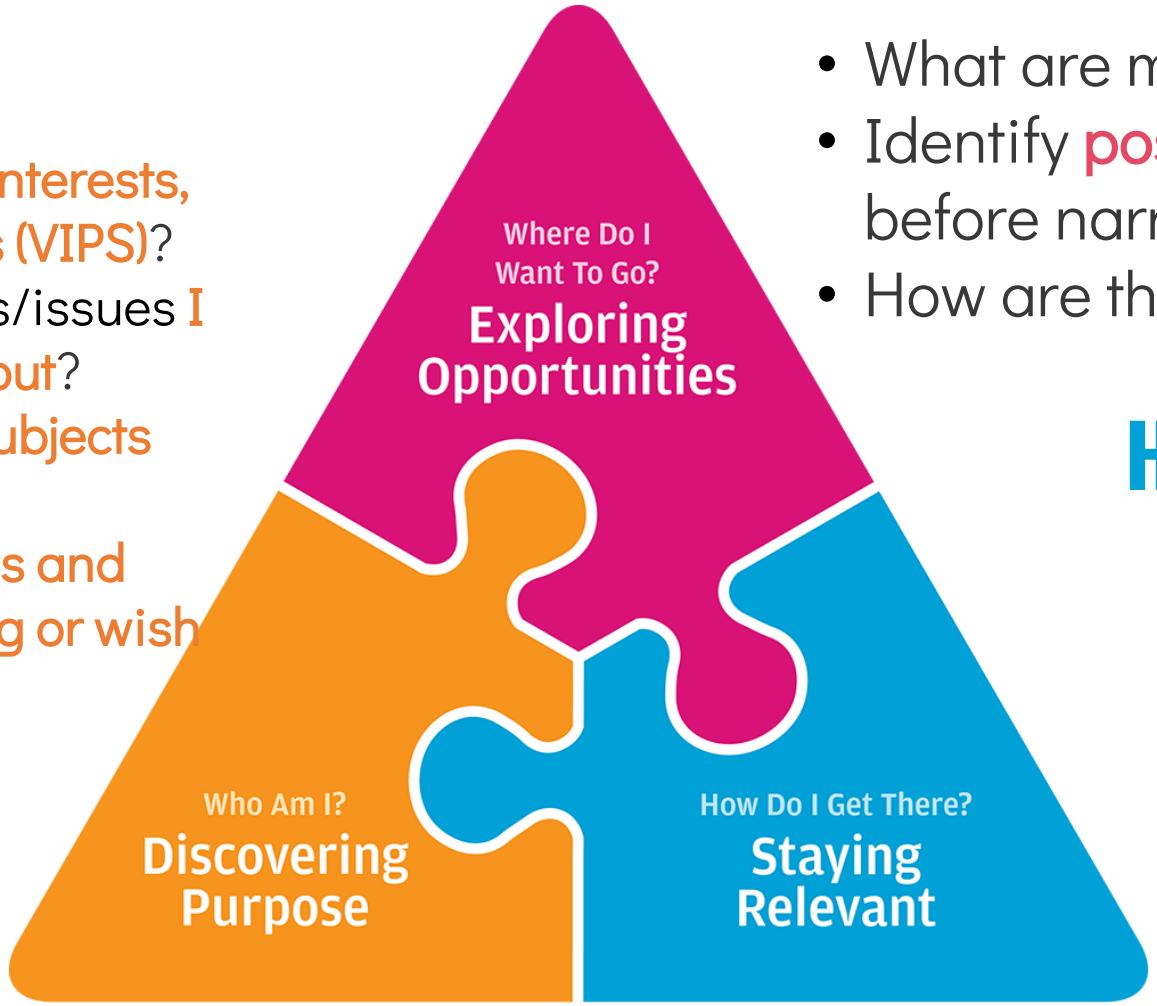
- **Listen** and find out the “whys” behind your child’s preferences.

- Give your child the **space to communicate freely** with you to understand her better

Conversation points

Who am I?

- What are my values, interests, personality, strengths (VIPS)?
- What are some things/issues I care/feel strongly about?
- What activities and subjects do I enjoy more/less?
- What are my strengths and skills that I enjoy using or wish to develop further?



Where do I want to go?

- What are my aspirations?
- Identify possible courses/careers before narrowing down options
- How are they aligned to my VIPS?

How do I get there?

- What goals can I set to achieve my first choice?
- What if I can't get my first choice? What is my Plan B or C?

Education & Career Guidance

MySkillsFuture Student Portal

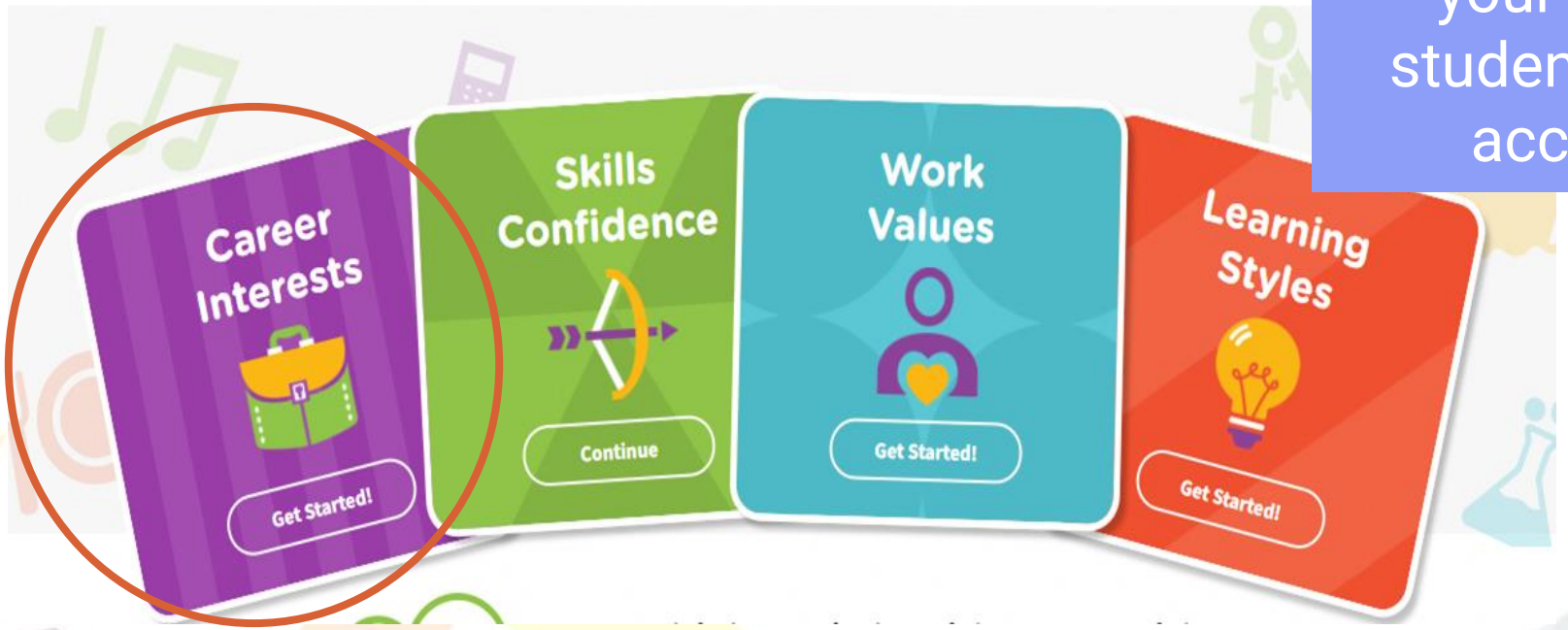
go.gov.sg/mysfsec

Credit: MySkillsFuture Student Portal (Secondary)

MySkillsFuture Student Portal

Know Yourself

Discover more about your career interests, skills, work values, and learning styles. These tools are meant to facilitate self-awareness and exploration. You may use them as a guide to plan your education or career. Do speak to your parents, teachers and Education and Career Guidance counsellors if you need further advice.



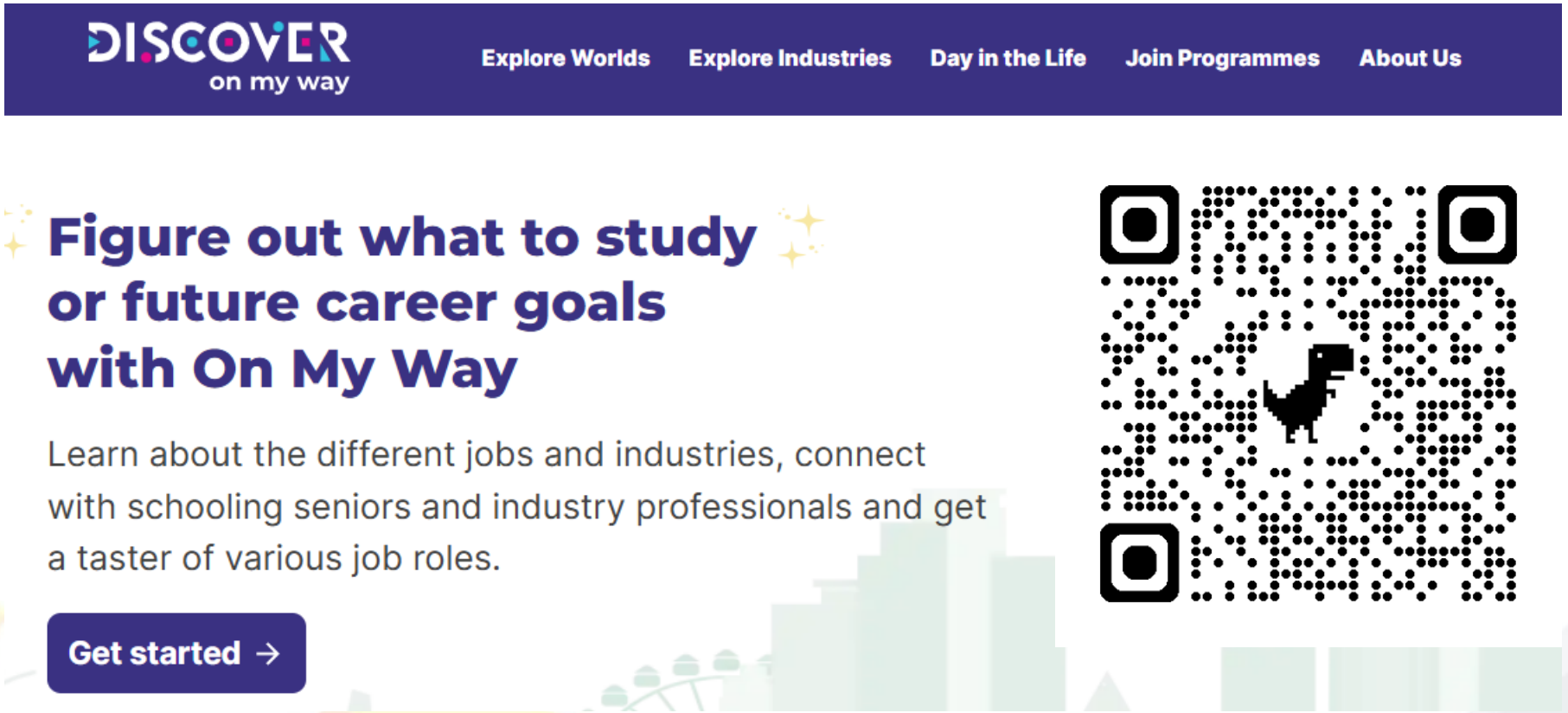
Requires login to your MySF student portal account

Credit: MySkillsFuture Student Portal (Secondary)

USEFUL RESOURCES

Discover – On My Way

Know Yourself



Credit: MySkillsFuture Student Portal (Secondary)

BOOK AN APPOINTMENT WITH OUR **ECG COUNSELLOR**

Wednesday and **Thursday**

7.30am – 5pm

Email: lim_hui_ching_a@moe.edu.sg

Booking form: https://go.gov.sg/plmgss-ecg