Sec 2 Parent Engagement Session (26 Apr 2024)

PUNGGOL SECONDARY SCHOOL

ACHIEVERS WITH CHARACTER

Agenda

Time	Programme
6.30 pm – 7.15 pm	Opening address by the Principal Overview of subject combination by Year Head Post-Secondary Education Information Resources by ECG counsellor
7.15 pm – 7.45 pm	Question & Answer Segment

Opening Address by Principal, Ms Valerie Tng

How do you help your child chart their own paths and thrive in this "new world"?

ACCELERATING SPEED OF TECHNOLOGICAL ADVANCEMENT & DISRUPTION
Changes & Opportunities

A DIGITALLY CONNECTED BUT OTHERWISE FRAGMENTED WORLD
Ideologies & Cultures

DISRUPTIONS BROUGHT ON BY CLIMATE CHANGE
Resilience & Adaptability

WHAT DOES OUR WORLD LOOK LIKE RIGHT NOW?

DEMOGRAPHIC SHIFTS & AN EVOLVING SOCIAL FABRIC
Fault Lines & Cohesion

STRESS & OVER-EMPHASIS ON ACADEMIC QUALIFICATIONS
Skills & Dispositions

PREVALENCE OF WELL-BEING CONCERNS
Resilience & Mindsets

Top 10 Skills of the Future

According to the third edition of the World Economic Forum's Future of Jobs Report, half of us will need to reskill in the next five years, as the "double-disruption" of the economic impacts of the pandemic and increasing automation transforming jobs takes hold.

CURRENT TRENDS

- 50% of all employees will need re-skilling by 2025, as adoption of technology increases, according the World Economic Forum's Future of Jobs Report.
- Critical thinking & problem-solving top the list of skills employers believe will grow in prominence in the next five years.
- Newly emerging this year are skills in self-management such as active learning, resilience, stress tolerance and flexibility.
- Respondents to the Future of Jobs Survey estimate that around 40% of workers will require reskilling of six months or less

TYPE OF SKILL

- Problem Solving
- Self-Management
- Working with People
- Technology Use & Development

Fastest growing vs. fastest declining jobs

WORLD ECONOMIC FORUM

Top 10 fastest growing jobs

1.	AI and Machine Learning Specialists
2.	Sustainability Specialists
3.	Business Intelligence Analysts
4.	Information Security Analysts
5.	Fintech Engineers
6.	Data Analysts and Scientists
7.	Robotics Engineers
8.	Electrotechnology Engineers
9.	Agricultural Equipment Operators
10.	Digital Transformation Specialists

Top 10 fastest declining jobs

1.	Bank Tellers and Related Clerks
2.	Postal Service Clerks
3.	Cashiers and ticket Clerks
4.	Data Entry Clerks
5.	Administrative and Executive Secretaries
6.	Material-Recording and Stock-Keeping Clerks
7.	Accounting, Bookkeeping and Payroll Clerks
8.	Legislators and Officials
9.	Statistical, Finance and Insurance Clerks
10.	Door-To-Door Sales Workers, News and Street Vendors, and Related Workers

Source
World Economic Forum, Future of Jobs Report 2023.

Note
The jobs which survey respondents expect to grow most quickly from 2023 to 2027 as a fraction of present employment figures

OUR VISION

Future-ready Punggolites who are active contributors

OUR MISSION

To nurture a vibrant community of self-directed and adaptable Punggolites, grounded in values

ACTIVE CONTRIBUTORS

OUR SCHOOL VALUES

Propriety	Righteousness	Integrity	Self-respect
礼	义	廉	耻

SELF-DIRECTED & ADAPTABLE

OUR MOTTO

ACHIEVERS WITH CHARACTER

Active Contributor

Empathetic and open-minded to collaborate effectively in teams, **exercises initiative**, has courage to take risks responsibly, is innovative, and **strives for excellence.**

VISION: Future-ready Punggolites who are active contributors

MISSION: To nurture a vibrant community of self-directed and adaptable Punggolites, grounded in values

Adaptable

- Adapting one's strategies and behaviours to apply skills in different, unfamiliar or challenging contexts.
- **Being reflective and ready to learn from mistakes.**
- Having **resilience** in the pursuit of goals despite difficulties and unexpected complications.

Propriety
Righteousness
Integrity
Self-respect

Self-Directed Learner

Takes responsibility for his/her own learning, is curious, **reflective** and persevering in the lifelong pursuit of learning, driven by passion and **purpose**.

GENERAL GUIDELINES

In guiding your child to select a suitable subject combination, please consider:

YOUR CHILD'S INTERESTS, STRENGTHS AND ASPIRATIONS

YOUR CHILD'S ABILITY TO COPE WITH THE DEMANDs OF THE SUBJECT

YOUR CHILD'S INTERESTS, STRENGTHS AND ASPIRATIONS

- Evaluate your child's strengths and weaknesses to decide on the subject combination. Knowing the weaknesses can prevent your child from taking a subject that he/she may end up struggling with.
- Choosing a subject your child is strong in can help him/her further develop his/her skills and interests in the subject. This can also help your child to decide on the best combination for him/her to score well in the national examination.

YOUR CHILD'S ABILITY TO COPE WITH THE DEMANDs OF THE SUBJECT COMBINATION

- Taking current results into consideration to help you identify which subjects your child is better at.
- This can indicate which subjects your child is more inclined towards.

SUBJECT COMBINATION (Predominantly G3 subjects)

	English Language							
	Mother Tongue/ Higher Mother Tongue Language							
	Elementary Mathematics							
	Combined Humanities (Social Studies, Elective History), OR Combined Humanities (Social Studies, Elective Geography)							
	Pure Chemistry		Science (Chem, Phy)	Science (Chem, Bio)	Science (Chem, Phy)	Science (Chem, Bio)	Science (Chem, Phy)	Science (Chem, Bio)
	Pure Physics	Pure Biology	Principle of Accounts		Craft & Tech		Craft & Tech	
	Additional Mathematics		Additional Mathematics		Pure History Or Pure Literature		Principle of Accounts	
No of Subjects	7	7	7	7	7	7	7	7

Subjects Criteria (G3)

Sec 3 Subjects	Sec 2 Subjects	Overall %
Pure Sciences	**Science & Mathematics**	**≥65 ≥65**
Pure Literature	**English Literature & English Language**	**≥60 ≥60**
Pure History	**History & English Language**	**≥60 ≥60**
Additional Mathematics	**Mathematics**	**≥65**

Subjects Criteria (G3)

Sec 3 Subjects	Sec 2 Subjects	Overall %
Principles of Accounts	**Mathematics & English Language**	**≥60 ≥50**
Art	**Art**	**≥60**
NFS	**FCE**	**≥60**
D&T	**D&T**	**≥60**
(not part of Subject Combination option)		
HMTL	**only for existing HCL/HTL students**	**≥60**

Sec 2 Subject Combination (Predominantly G2 subjects)

English Language		
Mother Tongue/Higher Mother Tongue		
Elementary Mathematics		
Combined Humanities (Social Studies, Elective History) OR Combined Humanities (Social Studies, Elective Geography)		
Combined Science (Chemistry, Physics)		
Principle of Account	Additional Mathematics	Craft & Tech
6	6	6

Subjects Criteria (G2)

Sec 3 Subjects	Sec 2 Academic Performance	Overall %
Additional Mathematics	Mathematics (students will also take G3 Math)	≥75
Principle of Accounts	Mathematics English Language	≥60 ≥50
Art	Art	≥60
NFS	FCE	≥60
D&T	D&T	≥60

FULL SUBJECT BASED BANDING

- Students who do well for the G2 Subjects will be offered to take the subject at a more demanding level (G3).
- Students will need to have scored at least 75% for the subject and be recommended by the teacher to offer the subject at a more demanding level

Which exam my child is taking?

- G3 subjects – GCE ‘O’ Level examination
- G2 subjects – GCE ‘N’ Level examination

Conversion table for G3 to G2 grade

G3	G2
A1 to B3	1
B4 to C6	2
D7	3
E8	4
F9	5
	6 (U*)

Important Notes

For students who don't qualify for any 7 subjects combination

- School will generally accede to choice of 6th subject (Craft & Tech or POA), as long as student's performance in the relevant lower secondary subject(s) is not too far from the criteria.

For students who want to consider MTLB

- Students need to have at least 5 and 6 other examinable subjects for poly and JC admission respectively

ONLINE SUBMISSION

List of Subject Combinations will be available on the website.

Please note that your child/ward is to submit his/her Subject Combination Option Form (Online) through the following subject streaming website :
https://punggol.schoolhub.sg/

If your child/ward have any problems with the login, please email jonathan@rjcat.com with the following info:

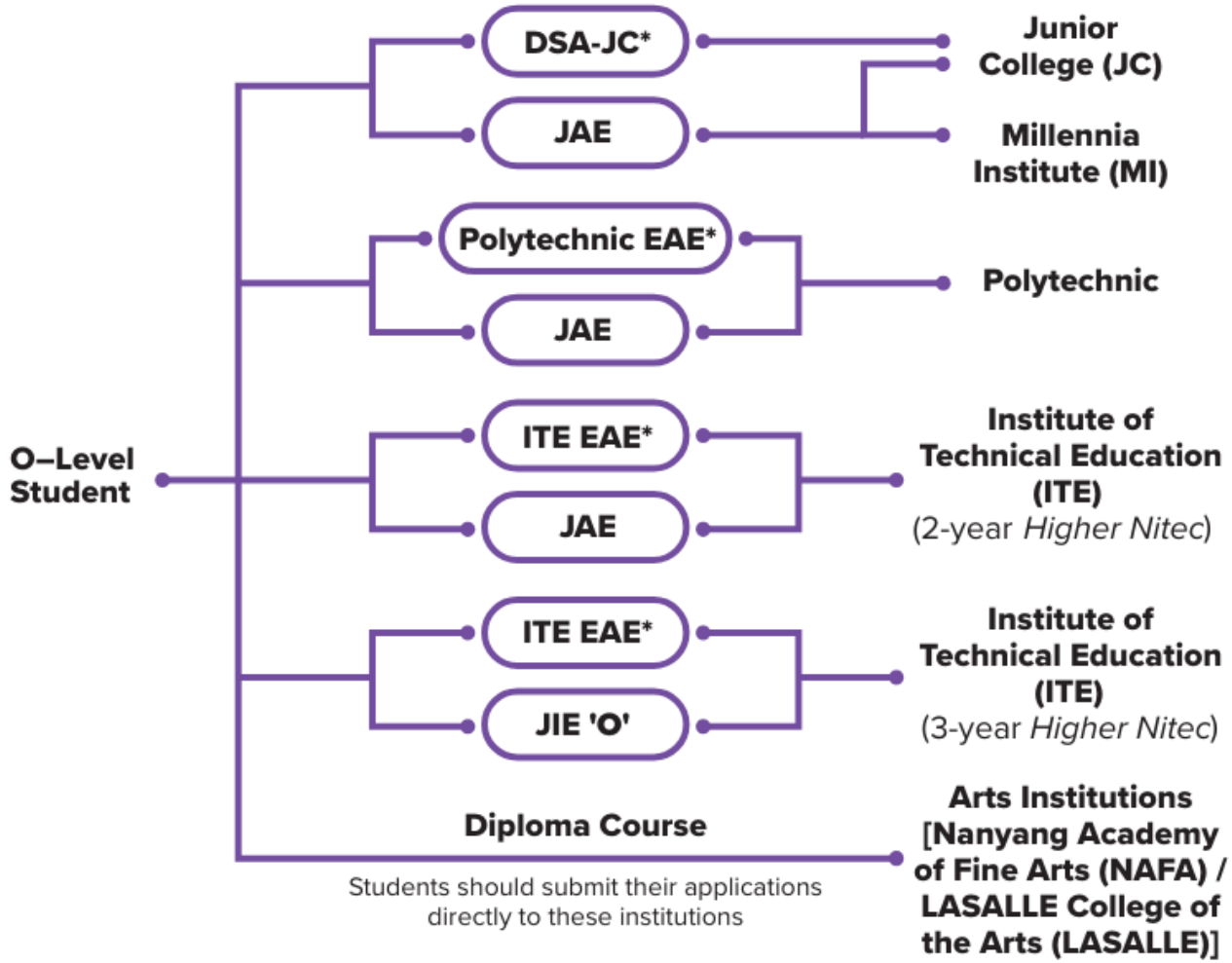
1. School:
2. Class:
3. Name:
4. Username:
5. Password:

Mock Streaming Exercise
Term 2 Week 10

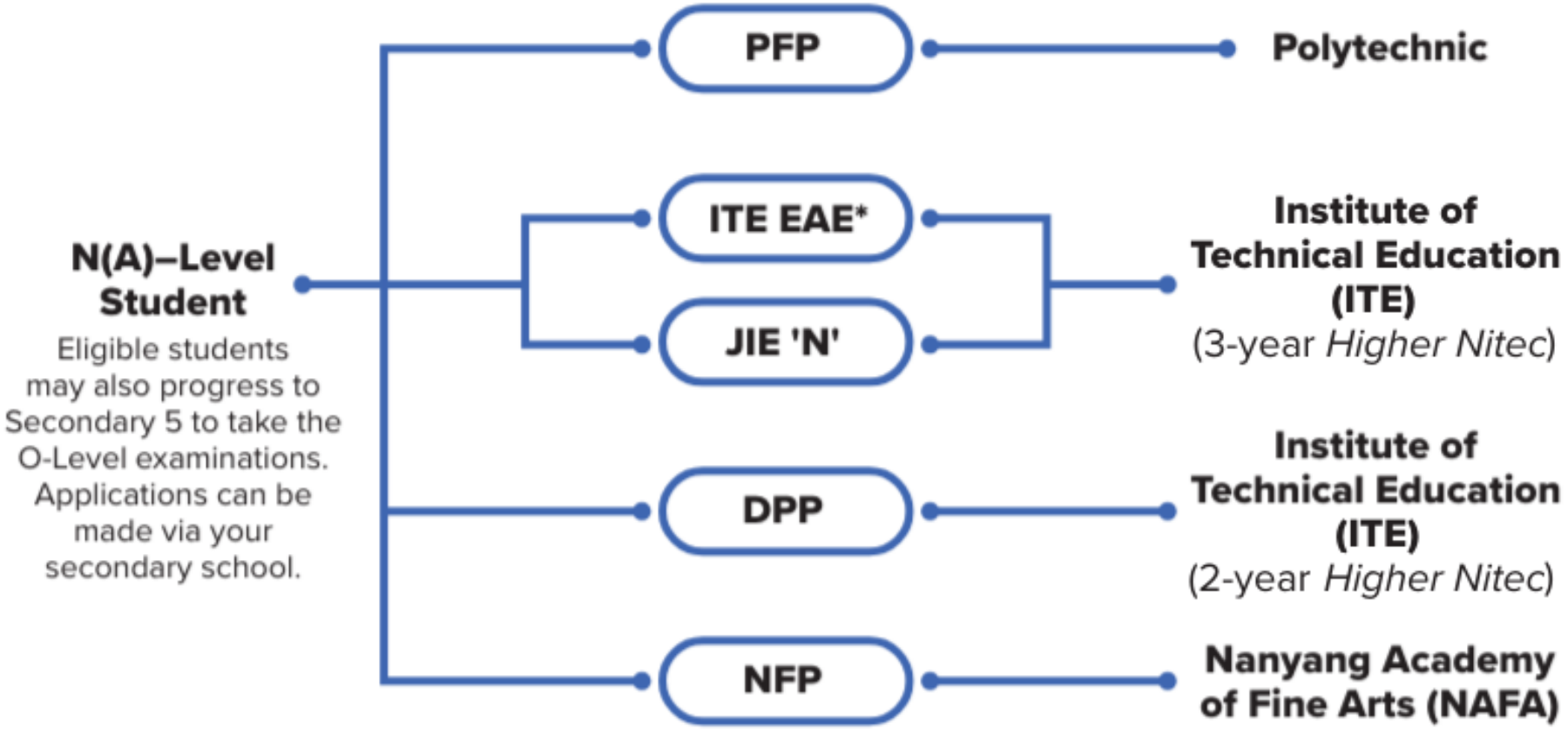
Post-Secondary Education Information Resources

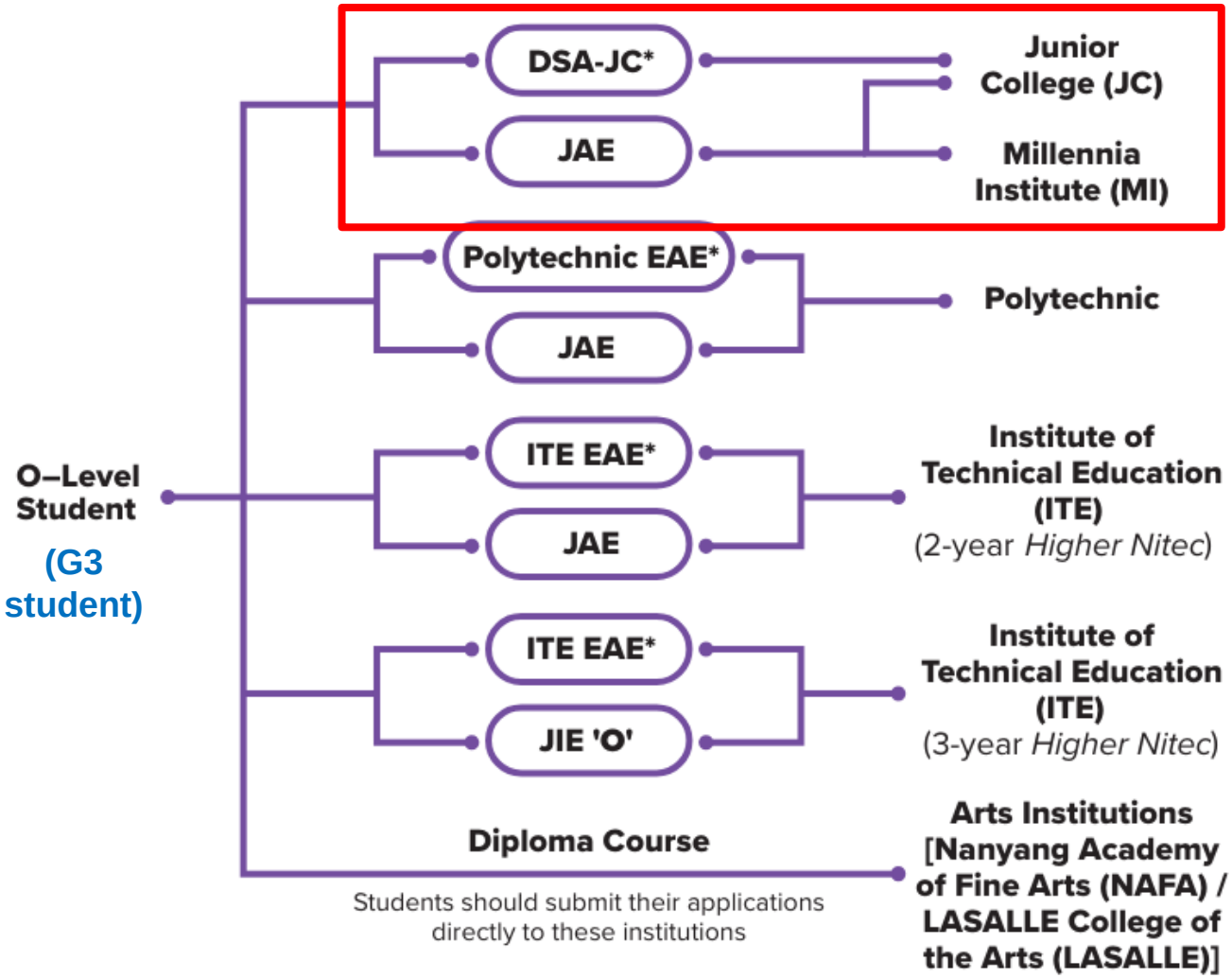
PUNGGOL SECONDARY SCHOOL
ACHIEVERS WITH CHARACTER

Post-Secondary Pathways for **G3 students**



Post-Secondary Pathways for **G2 students**




O–Level Student
(G3 student)
DSA-JC*
JAE
Junior College (JC)
Millennia Institute (MI)
Polytechnic EAE*
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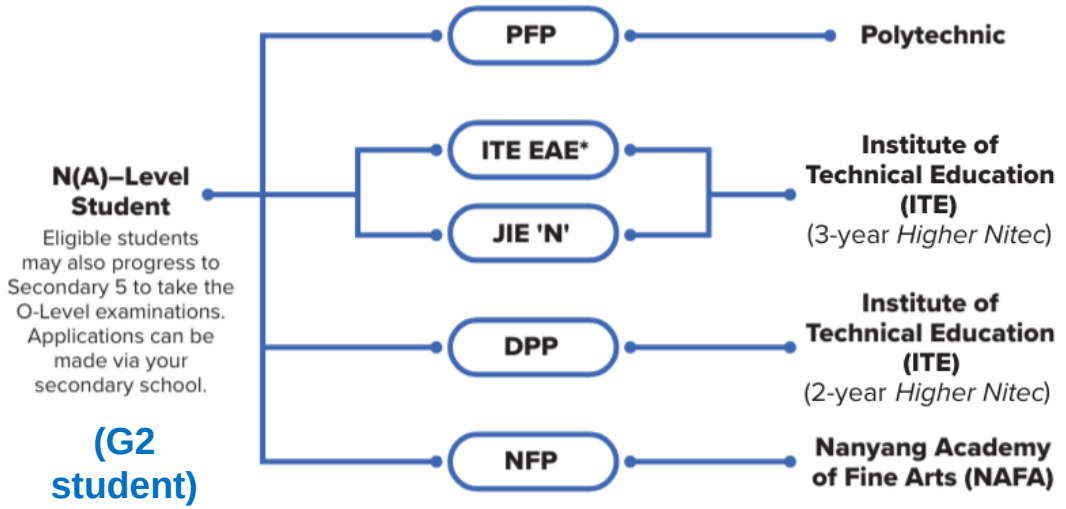
Diploma Course
Students should submit their applications directly to these institutions
Arts Institutions [Nanyang Academy of Fine Arts (NAFA) / LASALLE College of the Arts (LASALLE)]


N(A)–Level Student
Eligible students may also progress to Secondary 5 to take the O-Level examinations. Applications can be made via your secondary school.
(G2 student)
PFP
Polytechnic
ITE EAE*
JIE 'N'
Institute of Technical Education (ITE)
(3-year Higher Nitec)
DPP
Institute of Technical Education (ITE)
(2-year Higher Nitec)
NFP
Nanyang Academy of Fine Arts (NAFA)

Junior Colleges / Millennia Institute

via Direct School Admission (DSA-JC) or Joint Admission Exercise (JAE)

Junior Colleges	Millennia Institute
❑ 2 years ❑ Arts / Science ❑ L1R5 ≤ 20 (eligibility) ❑ GCE A-Level or International Baccalaureate (IB) Diploma Programme (Anglo-Chinese School (Independent), St. Joseph's Institution, School of the Arts (SOTA))	❑ 3 years ❑ Arts / Science ❑ Commerce (H2 Management of Business and H2 Principles of Accounting) ❑ L1R4 ≤ 20

Junior Colleges / Millennia Institute

via Direct School Admission (DSA-JC) or Joint Admission Exercise (JAE)

Junior Colleges

L1R5 Subjects

L1	English or Higher Mother Tongue Language
R1	Any 1 of these subjects: Humanities, Higher Art, Higher Music, Malay (Special Programme), Chinese (Special Programme), Bahasa Indonesia
R2	Mathematics or Science
R3	Any 1 of these subjects: Humanities, Higher Art, Higher Music, Mathematics, Science, Malay (Special Programme), Chinese (Special Programme), Bahasa Indonesia
R4, R5	Any 2 GCE O-Level subjects except Religious Knowledge

Millennia Institute

L1R4 Subjects

L1	English or Higher Mother Tongue Language
R1, R2	Any 2 of these subjects: Humanities, Higher Art, Higher Music, Mathematics, Science, Malay (Special Programme), Chinese (Special Programme), Bahasa Indonesia
R3, R4	Any 2 GCE O-Level subjects except Religious Knowledge

Eligibility

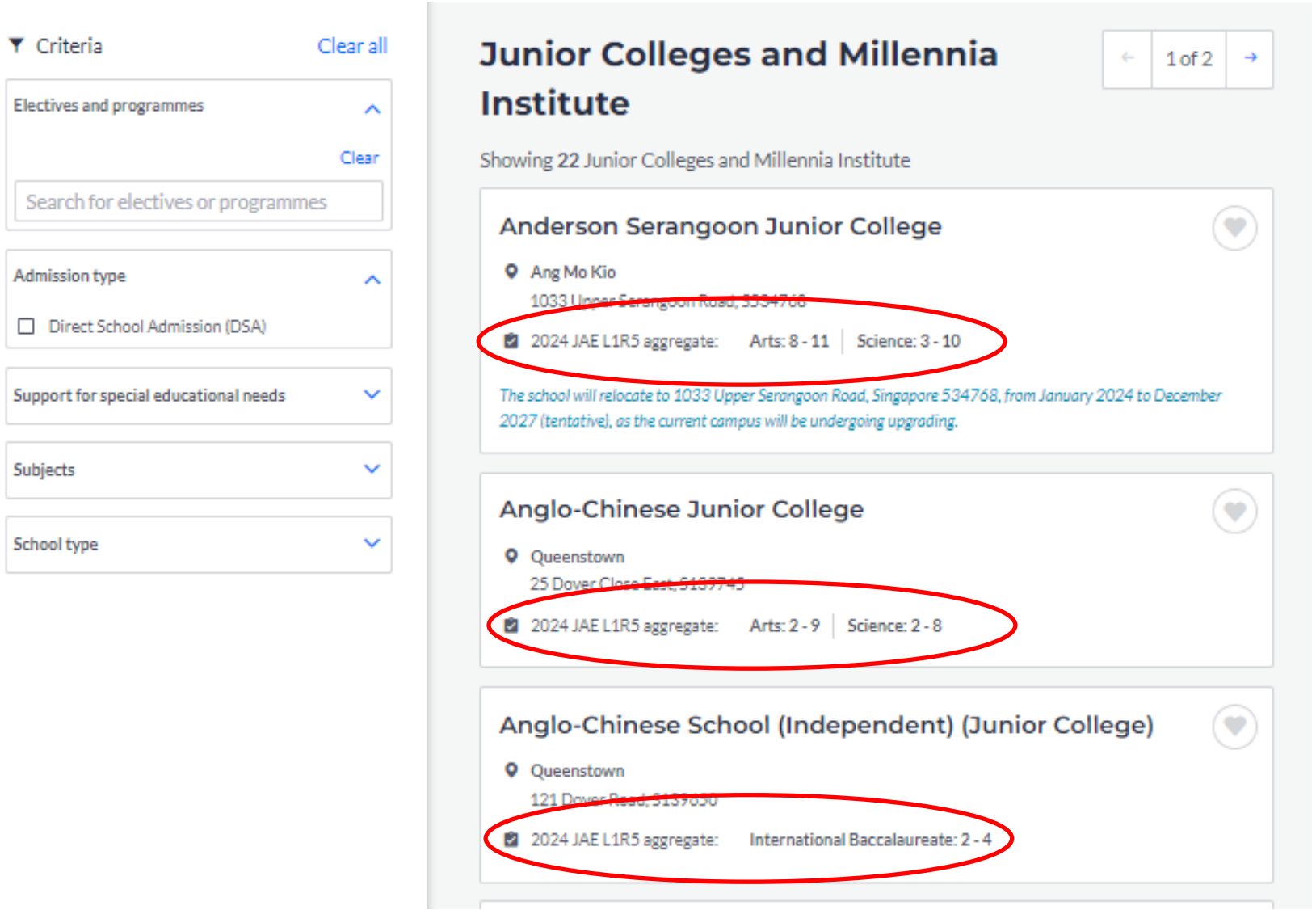
≠

Guaranteed Placement

Placement is <u>merit based</u>

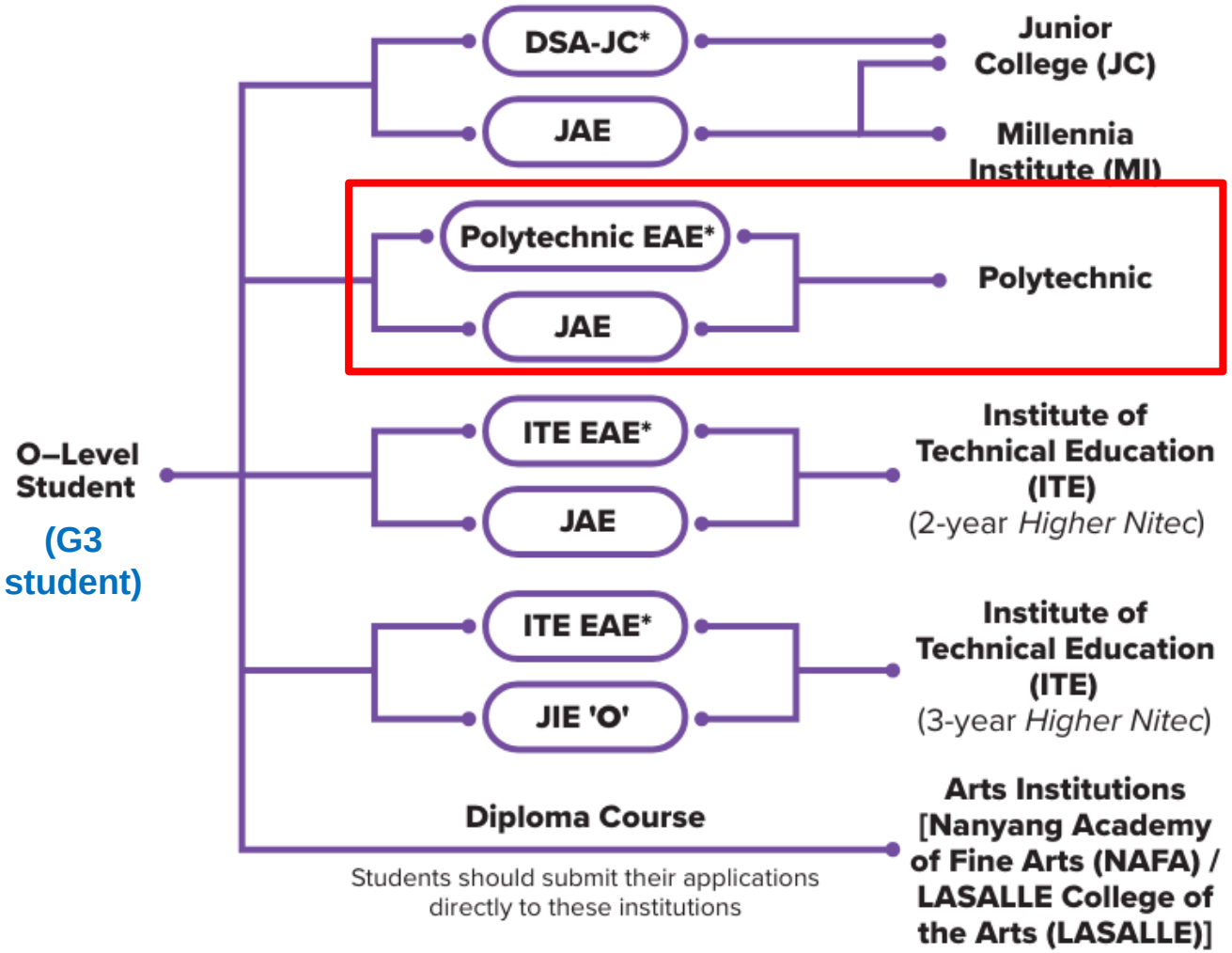
(according to cut-off point for the year (previous year's JAE cut-off point can only be used as an indicator))

Source:
MOE CourseFinder /
MOE SchoolFinder



Subject Requisites

- Each JC offers a variety of subject combinations.
- Different subject requirements across the various JCs.
- Subjects offered at A-Level may impact university admissions.
- Refer to institutes' websites for the most up-to-date information.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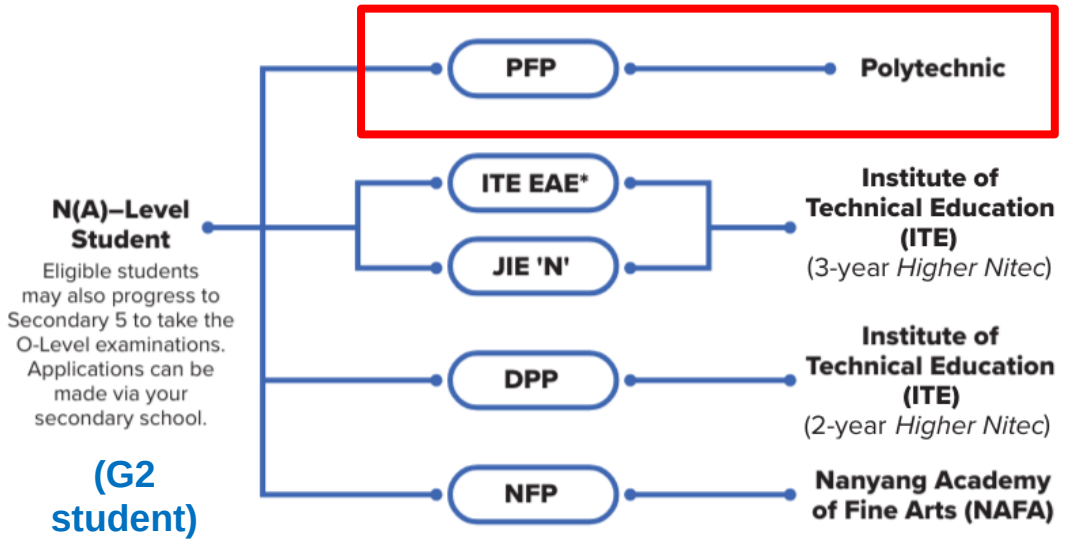
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Polytechnic

via Joint Admission Exercise (JAE) for G3 students

- A net ELR2B2 score ≤ 26
- Meet minimum requirements
  - Eg. Ngee Ann Poly (Mass Communications) → EL ≤ B4
- Eligibility ≠ Guaranteed placement (must meet cut-off point)
- Course-placement is merit-based.

Polytechnic

via Early Admission Exercise (Poly-EAE) for G3 students

- Conditional offer before O-Level, admissions based on aptitude, interest and passion.
- Applicants need to meet requirements with their O-Level score:
  - A net ELR2B2 score: ≤ 26 points
  - Minimum Entry Requirements (MERs) for the polytechnic course offered.
- Failure to meet requirements → EAE revoked → JAE

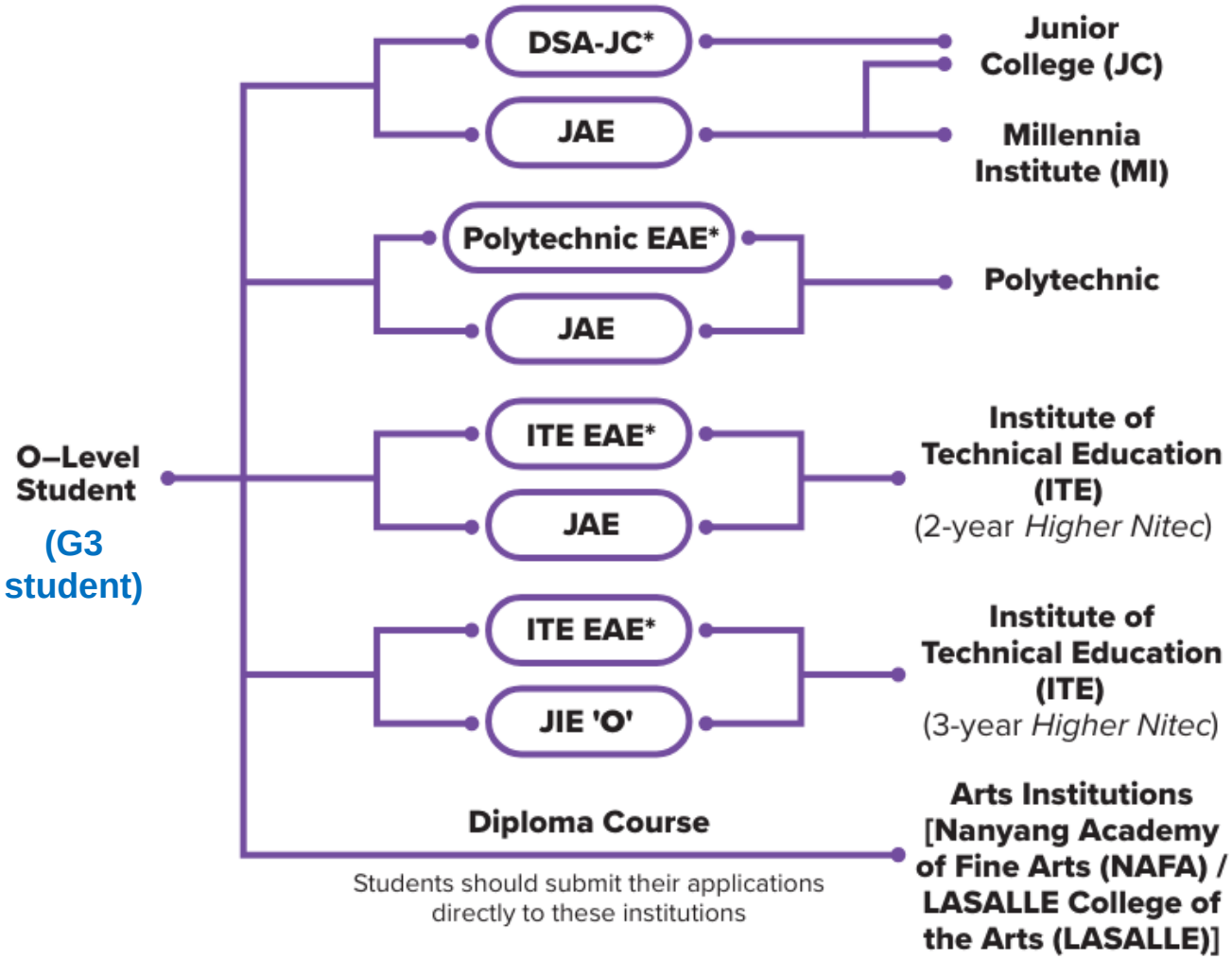
Polytechnic

via Polytechnic Foundation Programme (PFP) for G2 students

- One-year foundation programme that offers a practice-oriented curriculum followed by three years for diploma programme.
- Enter PFP via cluster-based admissions (ie. Science, Design, Engineering & Technology or Humanities, Art, Media and Business before posting to a specific diploma course based on interest and PFP performance (except Nursing and Early Childhood Development & Education courses).
- ELMAB3 ≤ 12 points excluding bonus points, for the N-Level examinations. You will also need the following specific requirements based on your preferred course:

Group 1 Courses (e.g. Engineering, Applied Sciences, Information & Digital Technologies)	Minimum Required Grade
English Language Syllabus A	3
Maths Syllabus A / Add. Maths	3
One of the following relevant subjects: - Design and Technology - Food and Nutrition / Nutrition and Food Science - Science (Chemistry, Biology) - Science (Physics, Biology) - Science (Physics, Chemistry)	3
Any two other subjects excluding CCA	4

Group 2 Courses (eg. Business & Management, Humanities, Media & Design)	Minimum Required Grade
English Language Syllabus A	2 (TBC: relaxation to grade 3)
Maths Syllabus A / Add. Maths	3
One of the following relevant subjects: - Art - Geography - History - Humanities (Social Studies, Geography/History/Literature in English) - Principles of Accounts	3
Any two other subjects excluding CCA	4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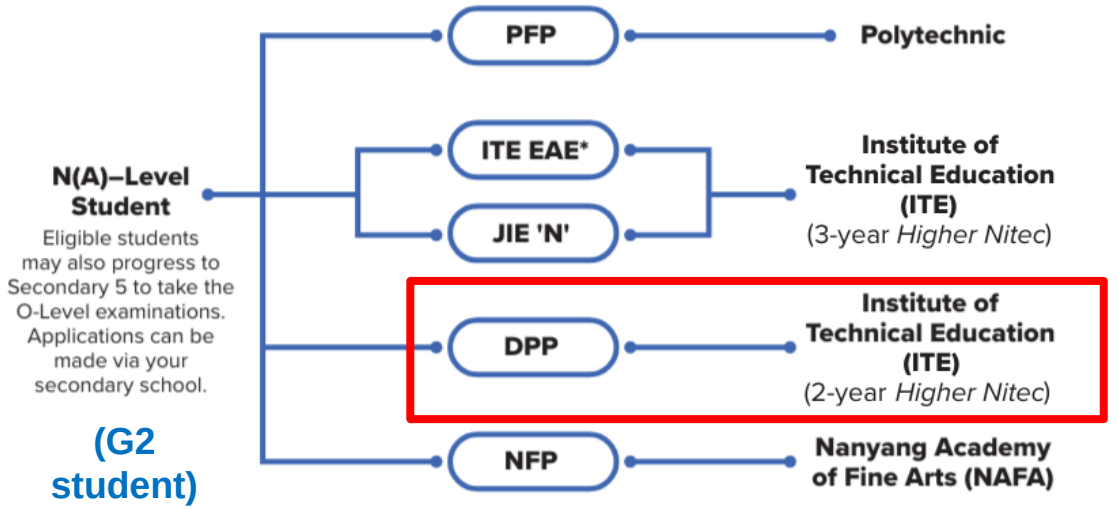
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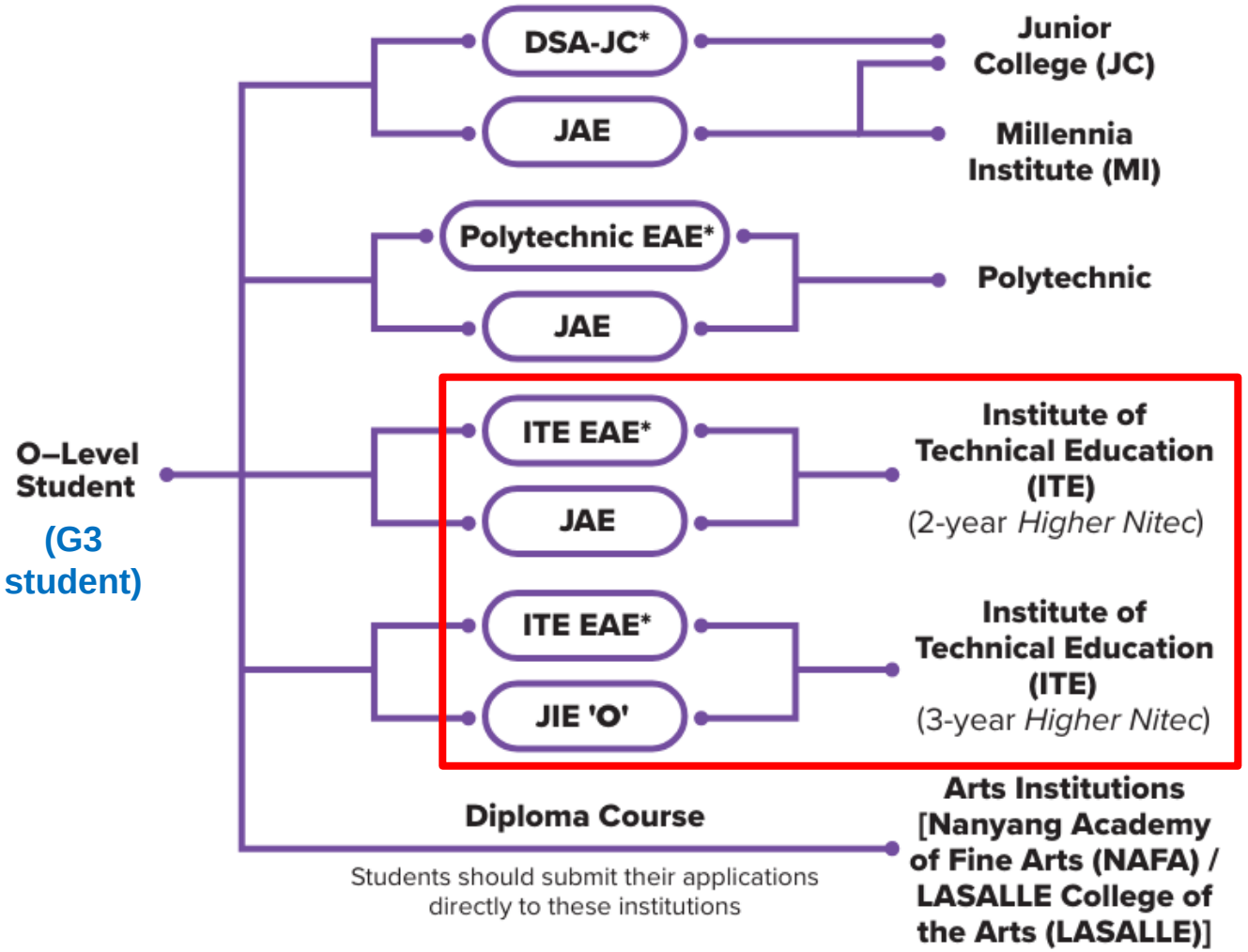
Direct-Entry-Scheme to Polytechnic Programme (DPP)

- Higher Nitec course at ITE to Poly (mapped to Higher Nitec course)
- Successful applicants → ITE for 10-week preparatory course, before joining Higher Nitec course in April
- Assured of a place later in a related polytechnic course, **subject to achieving the qualifying Grade Point Average (GPA) score** in the Higher Nitec course.
- ELMAB3 ≤ 19 points, excluding bonus points, for the N-Level examinations. You will also need the following specific requirements based on your preferred course:

Applied sciences, engineering or info-communications technology course	Minimum Required Grade
English Language Syllabus A	4
Maths Syllabus A / Add. Maths	4
3 other best subjects, excluding CCA	5

For graduates in business & services or hospitality	Minimum Required Grade
English Language Syllabus A	3
Maths Syllabus A / Add. Maths	4
3 other best subjects, excluding CCA	5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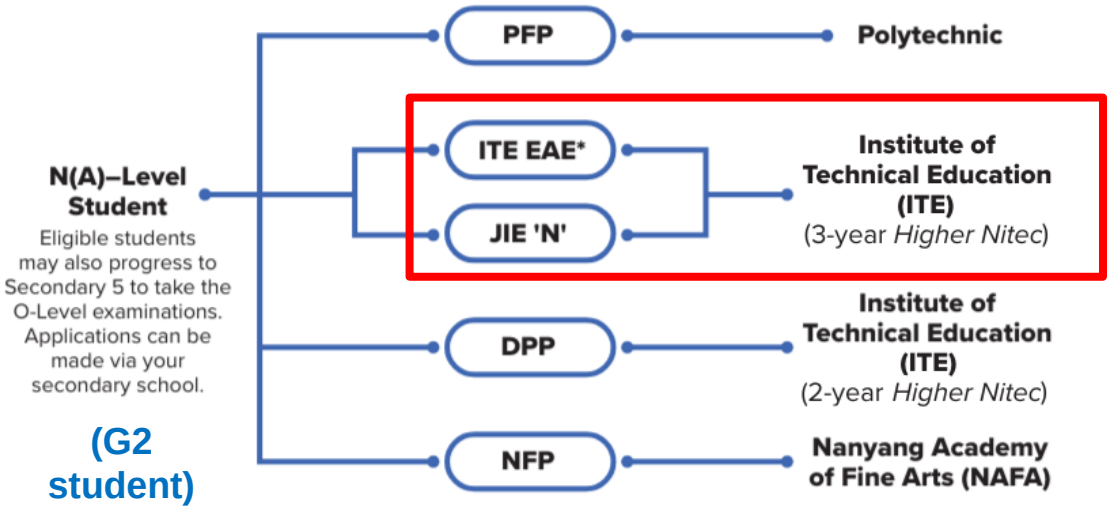
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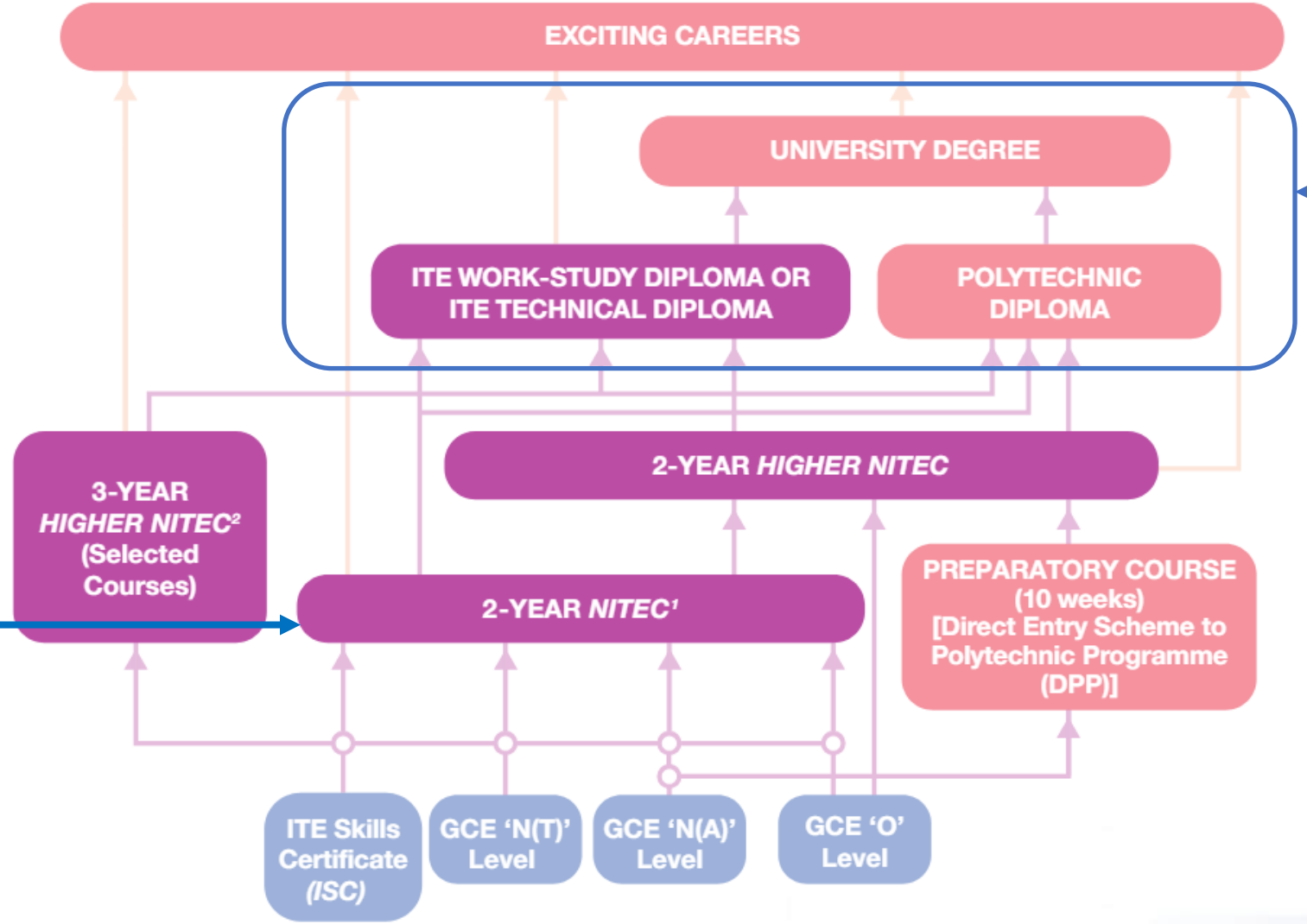
Progression Pathways (2024)



It's not The End, it's 'In To Excel'!

No more 2-year Nitec, all courses transited to the enhanced ITE curricular structure by AY2026 (completed transition of Nitec to 3-year Higher Nitec structure)

SINGAPORE BUDGET 2024

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 enrols in a diploma programme

- Further **S$10,000 top-up** to CPF Ordinary Account when the ITE graduate gets their diploma

Infographic: *Clara Ho*
Source: *Ministry of Finance, Feb 16, 2024*

cna

https://www.channelnewsasia.com/singapore/ite-graduates-diploma-cpf-top-budget-2024-4128746

MOE Resources

Ministry of Education
SINGAPORE

https://www.moe.gov.sg/post-secondary

Learn about the choices available for you to pursue your next phase of learning based on your interests and strengths.

SCHOOL FINDER

https://www.moe.gov.sg/schoolfinder

Explore a list of schools based on school type, CCAs, and what programmes they offer.

COURSE FINDER

https://www.moe.gov.sg/coursefinder

Explore courses offered by ITE, polytechnics and Autonomous Universities based on aggregate type, score and area of interest.

Support Your Children's Education and Career Journey

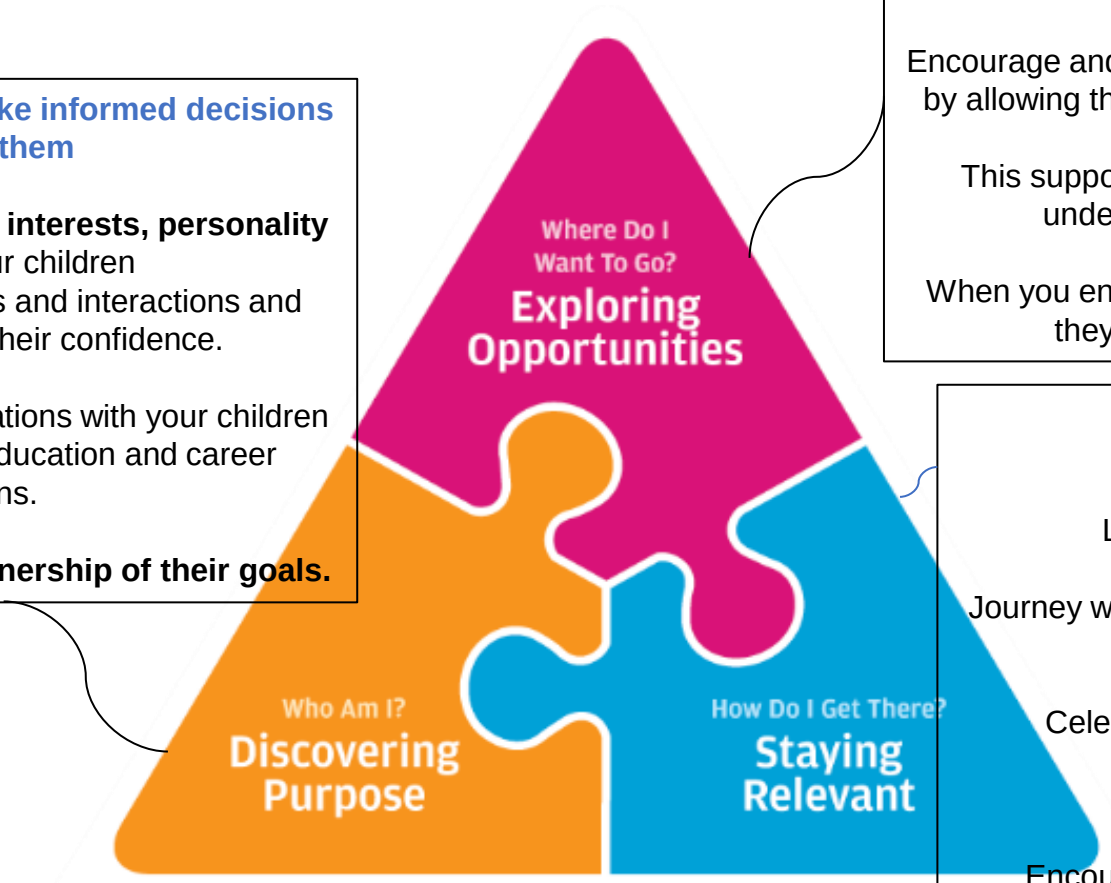
Support Your Children's Education and Career Journey

Guide your children to make informed decisions and own them

Pay attention to the **values, interests, personality and skills** your children display in various activities and interactions and affirm them to build their confidence.

Discuss important considerations with your children when they are making education and career decisions.

Empower them to take ownership of their goals.



Encourage your children to explore the world of work

Encourage and support your children in exploring different industries and careers by allowing them to be exposed to a broad spectrum of industries and careers.

This supports them in navigating future opportunities and gaining a better understanding of their values, interests, personality and skills.

When you encourage your children to take ownership of their goals and plans, they will be empowered to chart out their career aspirations.

Embrace lifelong learning and develop your children's future-ready skills

Learning does not occur only in school, but throughout life.

Journey with your children through challenges and triumphs in their education and career journey.

Celebrate their efforts and encourage them to reframe setbacks as opportunities.
Help them practise adaptability when facing changes.

Encourage them to keep their minds open to new options and think of alternative plans, instead of being fixated on one option.

Help your children see that they can grow and improve with effort and perseverance, and that they can build on opportunities for them to develop themselves as a lifelong learner, as they move towards living a purposeful life.

https://go.gov.sg/pssecg

Chat with Ms Grace, Education and Career Guidance Counsellor

Every Monday and Tuesday
@ L2 ECG Room (next to the Hall)

8.30 am to 4.30 pm

champion_grace@schools.gov.sg

SUBJECT INFORMATION

PUNGGOL SECONDARY SCHOOL

ACHIEVERS WITH CHARACTER






ADDITIONAL & ELEMENTARY MATHEMATICS

PUNGGOL SECONDARY SCHOOL

ACHIEVERS WITH CHARACTER

Difference between Mathematics & Additional Mathematics

Mathematics	Additional Mathematics
The syllabus is intended to provide students with the **fundamental mathematical knowledge and skills**.	The syllabus **prepares students adequately for A-Level H2** Mathematics, where a strong foundation in algebraic manipulation skills and mathematical reasoning skills are required.
The content is organised into three strands: • Number and Algebra, • Geometry and Measurement, and • Statistics and Probability.	The content is organised into three strands: • **Algebra**, • Geometry and Trigonometry, and • Calculus.

Difference between Mathematics & Add Mathematics

Mathematics	Additional Mathematics
Besides conceptual understanding and skills proficiency explicated in the content strands, development of **process skills** that are involved in the process of acquiring and applying mathematical knowledge is also emphasised. These include **reasoning, communication and connections, thinking skills and heuristics, and application and modelling**; and are developed based on the three content strands.	Besides conceptual understanding and skill proficiency explicated in the content strands, important mathematical processes such as **reasoning, communication and application (including the use of models)** are also emphasised and assessed. **The O-Level Additional Mathematics syllabus assumes knowledge of O-Level Mathematics.**

Difference between Mathematics & Add Mathematics

Mathematics	Additional Mathematics
Math questions have greater scaffolding. Even when the entire question is worth 10 or 11 marks in total, the entire question is broken down into parts, which then constitute a range of marks, ranging from a minimum of 1 mark to 6 marks maximum per part of the question.	Add Math questions typically have more marks allocated to each question. The minimum number of marks is 4 marks per question and can go up to a maximum of 12 marks per question. Very little scaffolding of Add Maths questions into parts.

Additional Mathematics

Concepts & Skills		
Algebra	Geometry & Trigonometry	Calculus
Mathematical Processes		

Aims of the syllabus

- **acquire mathematical concepts and skills** for higher studies in mathematics and to support learning in the other subjects, with emphasis in the sciences, but not limited to the sciences
- **develop thinking, reasoning, communication, application and metacognitive skills** through a mathematical approach to problem-solving
- **connect ideas** within mathematics and between mathematics and the sciences through applications of mathematics; and
- **appreciate** the abstract nature and power of mathematics.

Scheme of Assessment for O-Level Additional Mathematics (4049)

Paper	Duration	Description	Marks	Weighting
Paper 1	2 hours 15 minutes	There will be 12 – 14 questions of varying marks and lengths, up to 10 marks per question. Candidates are required to answer **ALL** questions.	90	50%
Paper 2	2 hours 15 minutes	There will be 9 – 11 questions of varying marks and lengths, up to 12 marks per question. Candidates are required to answer **ALL** questions.	90	50%

Scheme of Assessment for N(A)-Level Additional Mathematics (4051)

Paper	Duration	Description	Marks	Weighting
Paper 1	1 hour 45 minutes	There will be 13–15 questions of varying marks and lengths. Candidates are required to answer **ALL** questions.	70	50%
Paper 2	1 hour 45 minutes	There will be 8–10 questions of varying marks and lengths. Candidates are required to answer **ALL** questions.	70	50%






PURE & COMBINED SCIENCE

PUNGGOL SECONDARY SCHOOL

ACHIEVERS WITH CHARACTER

Pure Sciences vs Combined Science (O Level)

- The content for Pure Science is **broader** and **more in depth** compared to Combined Science. Pure Sciences will cover approximately 33% more content than each Combined Sciences (e.g. Pure Chemistry vs Science Chemistry).
- Pure Sciences emphasize on **Data Reading & Analysis** as well as Application of concepts. Examination questions are more demanding and challenging.
- Students should have a **good foundation in English** to be able to discuss concepts using correct vocabulary and casual links, and think deeply and critically to draw inferences based on information provided.
- A **strong foundation in Mathematics is essential** to ensure that students can handle and interpret visual, numerical and graphical data confidently, and make conclusions based on mathematical relationships between quantities.
- There is a practical exam at the end of the course which is about 45 min for each Combined Science subject requiring making observations and data collection as well as analysis of the data collected.
- The practical for Pure Science is 1 h 50 min and requires similar skills as combined science but with greater demand on analysis, **and an additional planning task**.

SCHEME OF ASSESSMENT — Pure Science

Candidates are required to enter for Papers 1, 2 and 3.

Paper	Type of Paper	Duration	Marks	Weighting
1	Multiple Choice	1 h	40	30%
2	Structured and Free Response	1 h 45 min	80	50%
3	Practical	1 h 50 min	40	20%

SCHEME OF ASSESSMENT — Combined Science

Candidates are required to enter for Paper 1, Paper 5 and two of Papers 2, 3 and 4.

Paper	Type of Paper	Duration	Marks	Weighting
1	Multiple Choice	1 h	40	20.0%
2	Structured and Free Response (Physics)	1 h 15 min	65	32.5%
3	Structured and Free Response (Chemistry)	1 h 15 min	65	32.5%
4	Structured and Free Response (Biology)	1 h 15 min	65	32.5%
5	Practical Test	1 h 30 min	30	15.0%

Subject	Pure Science	Combined Science
Biology	40 m MCQ 80 m Structured 40 m Practical	20 m MCQ 65 m structured 15 m practical
Chemistry	40 m MCQ 80 m Structured 40 m Practical	20 m MCQ 65 m structured 15 m practical
Physics	40 m MCQ 80 m Structured 40 m Practical	20 m MCQ 65 m structured 15 m practical

SCHEME OF ASSESSMENT

Candidates are required to enter for Paper 1, Paper 5 and two of Papers 2, 3 and 4.

Paper	Type of Paper	Duration	Marks	Weighting
1	Multiple Choice	1 h	40	20.0%
2	Structured and Free Response (Physics)	1 h 15 min	65	32.5%
3	Structured and Free Response (Chemistry)	1 h 15 min	65	32.5%
4	Structured and Free Response (Biology)	1 h 15 min	65	32.5%
5	Practical Test	1 h 30 min	30	15.0%

SCHEME OF ASSESSMENT

There will be six papers of which candidates will take four as described below.

5105 Science (Physics, Chemistry) Papers 1, 2, 3, 4
5106 Science (Physics, Biology) Papers 1, 2, 5, 6
5107 Science (Chemistry, Biology) Papers 3, 4, 5, 6

The pair of Papers 1 and 2, 3 and 4, 5 and 6 will be taken in one session of 1 hour 15 minutes. Candidates will be advised not to spend more than 30 minutes on each of Papers 1, 3 and 5.

Paper	Type of Paper	Duration	Marks	Weighting
1	Multiple Choice (Physics)	1 hour 15 minutes	20	20%
2	Structured (Physics)		30	30%
3	Multiple Choice (Chemistry)	1 hour 15 minutes	20	20%
4	Structured (Chemistry)		30	30%
5	Multiple Choice (Biology)	1 hour 15 minutes	20	20%
6	Structured (Biology)		30	30%

Subject	O Level	N Level
Science Biology	20 m MCQ 65 m structured 15 m practical	Not offered
Science Chemistry	20 m MCQ 65 m structured 15 m practical	20 m MCQ 30 m structured
Science Physics	20 m MCQ 65 m structured 15 m practical	20 m MCQ 30 m structured

Summary of differences for Pure Sciences vs Combined Science

	Subject count	Examination duration	Practical required?
O level Pure Science	each science is counted as 1 subject	P1 - 1 h P2 - 1 h 45 min P3 - 1 h 50 min **total: 4 h 35 min**	Examinable, 20% of final grade
O Level Combined Science	2 sciences taken as 1 subject	P1 - 1 h P2 (Phy) - 1 h 15 min P3 (Chem) - 1 h 15 min P4 (Bio) - 1 h 15 min (take 2 out of 3) P5 - 1 h 30 min **Total 5 h**	Examinable, 15% of final grade
NA Level Combined Science	2 sciences taken as 1 subject	P1 and P2 (Phy) 1 h 15 min P3 and P4 (Chem) 1h 15 min **Total: 2 h 30 min**	Practical skills are assessed in theory paper (10%)






HUMANITIES

1. CHOOSE ONLY 1:

a) SOCIAL STUDIES & HISTORY

OR

b) SOCIAL STUDIES & GEOGRAPHY

2. 7th subject:

PURE LITERATURE OR

PURE HISTORY

PUNGGOL SECONDARY SCHOOL

ACHIEVERS WITH CHARACTER

Elective History vs Pure History

History (Elective)	**Pure History**
World War 1 (1914) to collapse of communism (1991) Focus: European history Students sit for 1 history paper. (50%) Social Studies (50%)	• **Unit 1**: Extension of European Control in Southeast Asia and Challenges to European Dominance, 1870s – 1942 • **Unit 2**: Developments in the Post-World War II World: Decolonisation and the Cold War, 1940s – 1991 (Focus: Malaya; Vietnam; Europe & Japan) Students sit for 2 history papers. (100%) Students offering Pure History can only offer SS+Elective Geog as their Combined Humanities

Both require good command of the English language:

- **Need to read, understand and interpret written text (sources)**
- **Need to write essays (constructing explanations)**

Elective History vs Pure History (G3)

Elective History	Pure History
Paper 2 50 marks 1hr 50 mins 50% weighting + Paper1 Social Studies 50 marks 1hr 45 mins 50% weighting	Paper 1 50 marks 1 hr 50 mins 50% weighting Paper 2 50 marks 1hr 50 mins 50% weighting

Elective Geography vs Elective History

Geography (50%)	History (50%)
· Cluster 1 - Everyday Geography · Cluster 2 - Tourism · Cluster 3 - Weather and Climate **(G3 students will study all 3 clusters: G2 will study 2 clusters)** Geog is more current. (global warming, tourism etc.) Geog is more science-based. Studying data and drawing conclusions (Geographical Investigations) & map reading. <u>Assessment</u>: Evaluative essay; analysing data	World War 1 (1914) to collapse of communism (1991) • History is more an art of reconstructing the past using evidence. • **(G3 students will study both Germany and Japan; G2 students only do Germany)** <u>Assessment</u>: • Source Based Case study that test critical thinking skills • Structured Essay Question that tests constructing explanation.
Social Studies (50%)	

Suggestion: Get your child to browse through Sec 3 History and Geography textbooks.
This will give them an idea what they will be studying in Sec 3 and what interests them.

Elective Geography vs Elective History (G2/G3)

Elective Geography	Pure History
Paper 2 50 marks 1hr 45 mins 50% Weighting + Paper 1 Social Studies 50 marks 1hr 45 mins 50% weighting	Paper 2 50 marks 1 hr 50 mins 50% Weighting + Paper 1 Social Studies 50 marks 1hr 45 mins 50% weighting

Literature in English G3

- **Some aims of Literature:**

  - promote the appreciation of multiple perspectives
  - sensitise students to artistic decisions made by writers
  - equip students with the skills to convince others of their interpretation, based on sound reasoning with evidence

(more info can be found in syllabus document on SEAB website)

- **Assessment:**

Paper 1: Prose and Unseen Poetry.

Duration: 1 hr 40 min (50%).

Students will answer one question from each section (Prose and Poetry).

Texts taught: *How We Live Now* with a wide range of SingLit and International poems

Paper 2: Drama.

Duration: 1 hr 30 min (50%).

Students will answer one compulsory passage-based question and one essay question.

Text taught: *The Crucible*

Questions usually focus on Theme and Writer's Craft.

Example: How does the poet make descriptions of motherhood vivid for you in the poem?






COURSEWORK SUBJECTS

(DESIGN & TECHNOLOGY, NUTRITION/ FOOD SCIENCE/ ART)

PUNGGOL SECONDARY SCHOOL

ACHIEVERS WITH CHARACTER

Art

Art (G3)	Art (G2)
Focuses on art techniques (e.g., painting, mixed media, etc), art movements and inspirations. Developing student's independent discovery and concept development.	
<u>Paper 1(Coursework) - 60%</u> O-level question released in January Submission dates: **Mid Sep** **8** Preparatory Boards and **1** final Artwork <u>Paper 2 (Drawing & Painting) - 40%</u> **6-10** Preparatory Work of A3 size paper 3 hour final drawing and painting under examination condition	<u>Paper 1(Coursework) - 60%</u> N-level question released in January Submission dates: **Early Aug** **5** Preparatory Boards and **1** final Artwork <u>Paper 2 (Drawing & Painting) - 40%</u> **6-10** Preparatory Work of A3 size paper 3 hour final drawing and painting under examination condition

Design & Technology (D&T)

Design & Technology (G3)	Design & Technology (G2)
Focuses on research to define user needs, exploration and develop design solutions, prototyping their ideas using tools/equipment/machines. Cultivating creative, critical and reflective thinking.	
<u>Paper 1 - 40%</u> **2 hours** written examination One design centric question **Three** technology centric questions based on electronics, mechanism and structures. <u>Paper 2 - 60%</u> O-level theme released in January Submission dates: **End July** Design Process Journal (**90** pages) Artifact (realization, materials & practical processes) 2 Presentation boards to communicate the design solution	<u>Paper 1 - 40%</u> **1.5 hours** written examination One design centric question **Two** technology centric questions based on electronics and mechanism. <u>Paper 2 - 60%</u> N-level question released in January Submission dates: **Mid July** Design Process Journal (**60** pages) Artifact (realization, materials & practical processes) 2 Presentation boards to communicate the design solution

Nutrition & Food Science

Nutrition & Food Science (G3)	Nutrition & Food Science (G2)
Demonstrate principle of nutrition and scientific principles underlying food preparation, processing and safety.	
<u>Paper 1 (Written paper) - 40%</u> **2 hours** written examination MCQ, short-answer questions, essay questions <u>Paper 2 (Coursework) - 60%</u> O-level task question released in January Submission: **End July** • **25 pages** typed-written report • one food experiment (e.g., prepare and bake 3 batches of sponge cakes using different types of flour) • prepare and cook 3 different dishes related to the task question.	<u>Paper 1 (Written paper) - 40%</u> **1.5 hours** written examination MCQ, short-answer questions, essay questions <u>Paper 2 (Coursework) - 60%</u> N-level task question released in January Submission: **Early July** • **20 pages** typed-written report • one food experiment (e.g., prepare and bake 3 batches of sponge cakes using different types of flour) • prepare and cook 3 different dishes related to the task question.

ELECTIVES

PUNGGOL SECONDARY SCHOOL

ACHIEVERS WITH CHARACTER

Principles of Accounts

Aims of Syllabus:

- Apply double entry system of recording business transactions.
- Synthesis and presentation skills in the preparation of accounting information in a suitable form.
- Analytical skill in interpreting financial statements and analysing the effects of business transactions and accounting adjustments on financial statements.
- Evaluative skill in evaluating businesses for their profitability, liquidity and efficiency of inventory and trade receivables management using financial information and ratios
- Decision-making skill in evaluating choices using both accounting and non-accounting information.

Principles of Accounts (Assessment for G3)

	Details	Weighting	Duration
Paper 1	Answer 3 to 4 compulsory structured questions. (40 marks)	40%	1 hour
Paper 2	Answer 4 compulsory structured questions. (60 marks) • 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.	60%	2 hours

Principles of Accounts (Assessment for G2)

	Details	Weighting	Duration
Paper 1	Answer 3 to 4 compulsory structured questions. (40 marks)	40%	1 hour
Paper 2	Answer 4 compulsory structured questions. (60 marks) • One question requires the preparation of financial statements for a business for one financial year. (20 marks) • A scenario-based question (5 marks) will be part of one of the 3 remaining questions.	60%	2 hours

Topics not tested in G2 are : Financial Analysis, Sale of non current assets and Forms of Business Entities.

SBQ topics tested are: Inventory, Trade Payables and Trade Receivables.

CCA

PUNGGOL SECONDARY SCHOOL

ACHIEVERS WITH CHARACTER

CCA Bonus Point

- Excellent Grade

= 2 bonus points

- Good Grade
- = 1 bonus point

RECOGNITION OF STUDENTS' CO-CURRICULAR ATTAINMENT

At the end of the graduating year, the student's co-curricular attainment will be recognised according to the table below. The co-curricular attainment will be translated to bonus point(s) which can be used for admission to Junior Colleges / Polytechnics / Institutes of Technical Education (JC/Poly/ITE) [18].

Co-curricular Attainment	Descriptor
Excellent	The student has fulfilled the requirements for holistic development and achieved quality learning in the co-curriculum.
Good	The student has fulfilled the requirements for holistic development in the co-curriculum.
Fair	The student is working towards holistic development in the co-curriculum.

For an Excellent co-curricular attainment, which is translated to two bonus points, the student should have attained a minimum Level 3 in all four domains with at least Level 4 in one domain.

For a Good co-curricular attainment, which is translated to one bonus point, the student should have attained a minimum Level 1 in all four domains with any one of the following:

i. At least Level 2 in three domains;
ii. At least Level 2 in one domain and at least Level 3 in another domain; or
iii. At least Level 4 in one domain.

A Fair co-curricular attainment will not translate into any bonus points as the student has not met the minimum criteria for a Good co-curricular attainment.

FAQ

PUNGGOL SECONDARY SCHOOL

ACHIEVERS WITH CHARACTER

FAQ

Q: Can my child try a certain subject combination first and then drop subjects later?

A: As opportunity cost is involved, students should avoid adopting the mentality of “trying things out first” if they are not very confident of the subject combination.

Notwithstanding this, at the end of Sec 3, students can review their subject combination especially if they are not doing well.

FAQ

Q: Does the school only consider the end-of-year results or overall results for the cut off marks for the selection of subjects?

A: We will be taking the student's overall marks for the respective subject as it encompasses the student's progress throughout the year. This is a better indication of the student's mastery of the subject and ability to take the subject at a more demanding level.

FAQ

Q: How many subject combination choices do I have to make?

A: Three. The number of subject combinations a student can select is dependent on the student's overall results.

Students will only be able to select subject combinations for which they meet the eligibility criteria.

FAQ

Q: To select Principles of Account (POA) as a subject, students have to obtain 60 marks in mathematics to qualify for the subject. Why is this so?

A: The concepts learnt in Mathematics are highly relevant to the learning of POA. Proficiency in Mathematics is crucial for students to effectively engage with numerical data and analyse accounting information critically. Therefore, the subject requirement is implemented to facilitate students in comprehending POA concepts more thoroughly.

FAQ

Q: What are the benefits of G2 students taking G3 subjects?

A: Their G3 grade will be converted to the G2 grade based on the conversion table on slide 22. Once they have sat for their G3 subject in Sec 4, they can use it to apply for PFP (poly) and DPP (ITE).

FAQ

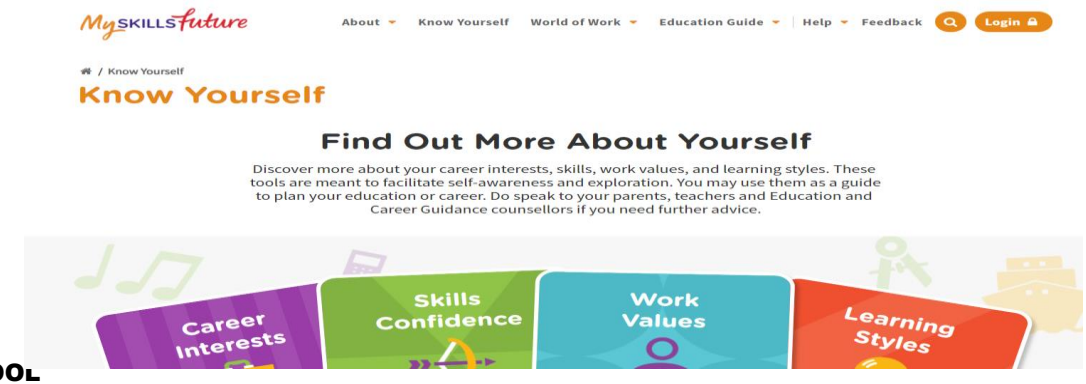
Q: How can I help my child to do well?

A: Students are encouraged to work closely with their subject teachers so that they can improve on their learning gaps. Students are also encouraged to prepare a revision timetable for all subjects and follow it closely.

FAQ

Q: How can I guide my child to make the right choices for his/ her subject combination?

A: We strongly encourage students to explore the Skillsfuture portal and complete quizzes under ‘Know Yourself’. The quizzes may guide students in discovering their career interests. From here, they can gauge the industry and possible polytechnic courses they can pursue. Students are encouraged to speak to the school’s Education and Career Guidance counsellor as well before they decide on their subject combination.



FAQ

Q: Does the school only consider the end-of-year results or overall results for the cut off marks for the selection of subjects?

A: The school adopts a holistic approach by assessing the student's overall performance across the entirety of the academic year. Thus, the school looks at students' overall marks for each subject, considering their progress throughout the year. This gives a better idea of students' understanding and ability to take the subject at a more demanding level.

FAQ

Q: How can my child's **CCA bonus points** be used in the entry criteria for JC/Poly?

A: CCA Involvement or bonus points is not an entry criteria for JC/Poly/ITE, but are used to recognise and reward students who have had good co-curricular involvement. At graduation, students' co-curricular attainment will be recognised according to Excellent/Good/Fair grades.

The level of attainment will be converted to a bonus point(s) which can be used for admission to Institutes of higher learning (JC/Poly/ITE).

These bonus points are deducted from the O-Level gross aggregate score to calculate the net aggregate score. The gross aggregate score is used to determine eligibility for admission to the different JC or Polytechnic streams/courses. After indication of preference, posting to the specific stream/course will be based on his/her net aggregate score.

FAQ

:Do the **CCA bonus points** apply to Normal (Tech) students going to ITE?

A: Bonus points can be used to support admission to JC/Poly/ITE in the following manner:

The gross aggregate scores/grades for ‘O’ or ‘N’ Level are used to determine eligibility for admission to JC, Polytechnic and ITE streams/courses.

During application, students will indicate their preferences for the various streams/courses. For some ITE courses, there may be other entry criteria or interviews held. Bonus points and CCA records are taken into consideration at this juncture.

FAQ

Q:How do I find out more about CCA attainment / records and relevant bonus points?

A: Please find more detailed information on our school website on LEAPS2.0

(Annex A - Detail explanation and Annex B - Samples with explanations)

https://www.punggolsec.moe.edu.sg/the-pss-learning-experience/co-curricular-activities-ccas/leaps/leaps-2-0-domains/

https://www.punggolsec.moe.edu.sg/the-pss-learning-experience/co-curricular-activities-ccas/leaps/recognition-of-students/