



Gan Eng Seng School

Secondary 2 Meet-Parent-Session Express Course

31 March 2023, Friday



Outline of Presentation

- Holistic Development of Gessians
- Post-Secondary Options
- Sec 3 2023 Subject Combinations
- Streaming Process and Considerations
- Q & A

Life of a Gessian...



Not just about academic excellence!

begin WITH
THE end IN
mind





1) Begin with the End in Mind

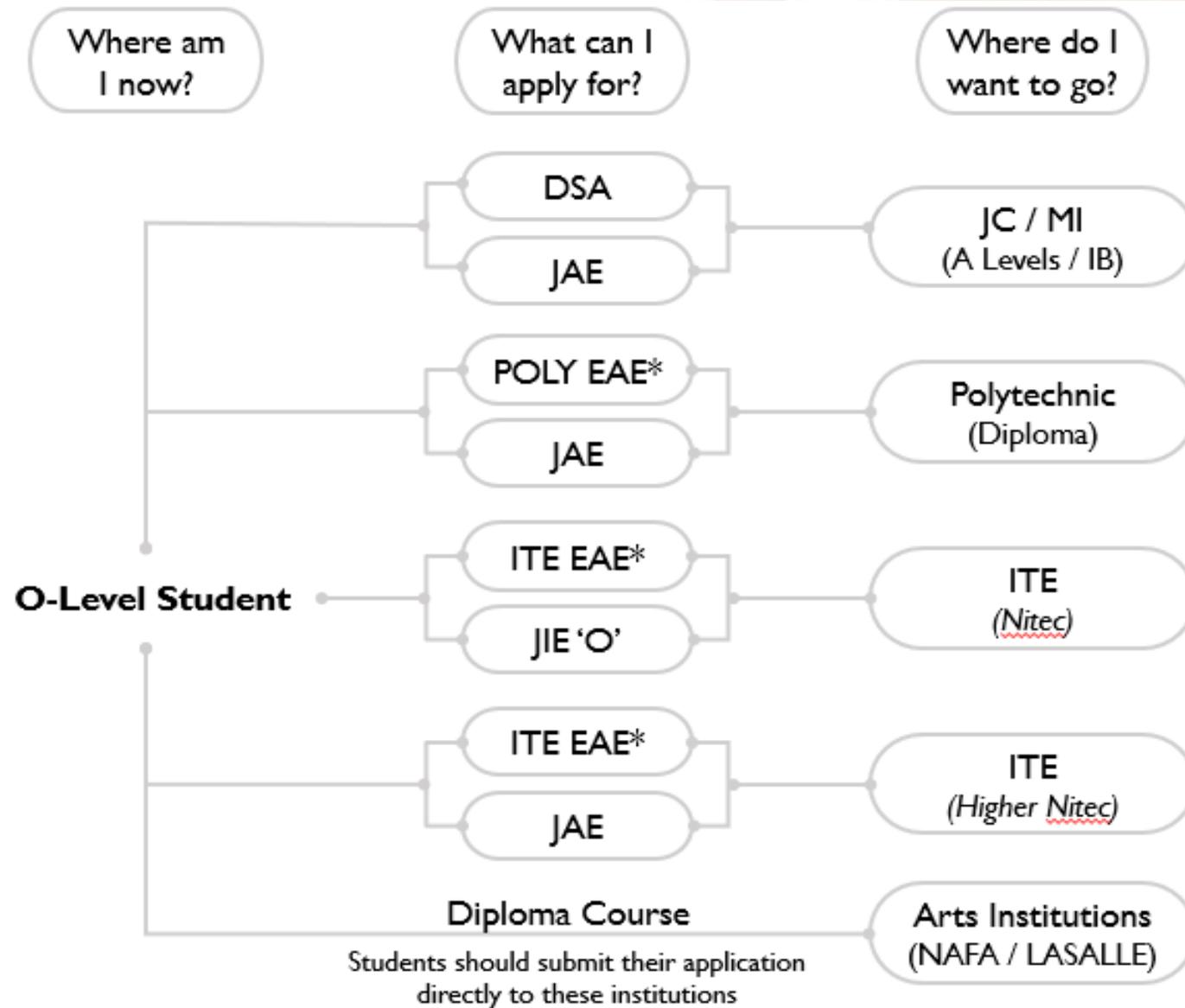
3) How do we get there?

2) Where are we now?

Post 'O'-Level Education Pathways



What's Next after GCE 'O'-levels?



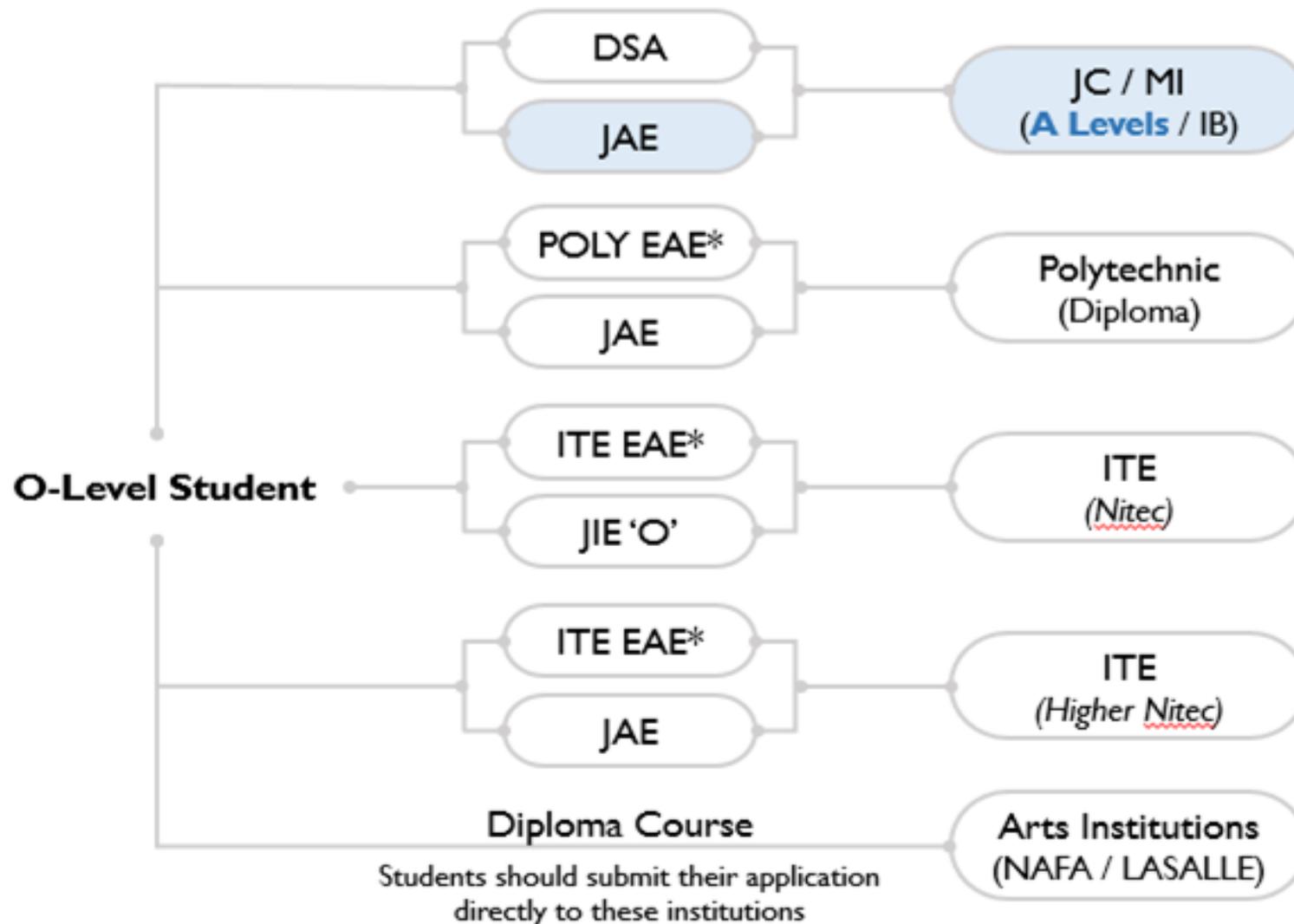
The Pre-Universities Landscape



Why choose a JC/MI?

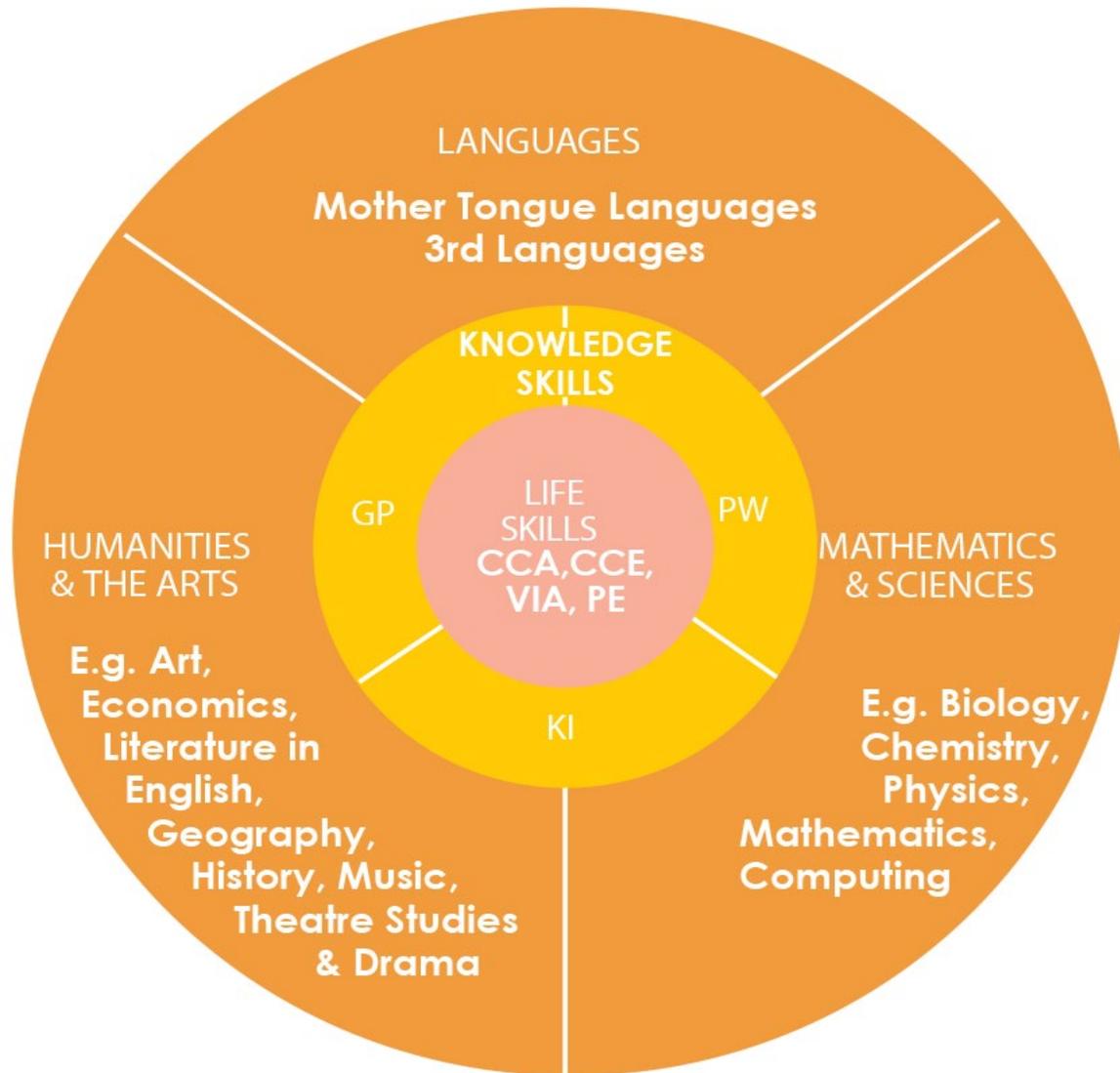
- You prefer an in-depth study of a specific content area in academic studies.
- You prefer learning that is more conceptual and theoretical.
- You prefer a structured timetable with allocated lectures and tutorials.
- You prefer the routine of a school setting.

JC / MI (A Levels): Merit-based Admission (JAE)



GCE A-Level Programme

Junior Colleges / Millennia Institute



Legend

CCA	Co-Curricular Activities
CCE	Character & Citizenship Education
PE	Physical Education
GP	General Paper
PW	Project Work
KI	Knowledge & Inquiry
VIA	Values in Action

JC and MI: A-Level Curriculum

H1	H2	H3
Half of H2 subjects in terms of curriculum time or content.	Equivalent to 'A' level subjects prior to 2006.	Subjects with diverse learning opportunities for in-depth study (e.g. advanced content, research, university-level module). You must offer the corresponding subject at H2 level. Replaced the 'S' papers after 2006.

JC/MI: Typical Subject Combination

CONTENT-BASED SUBJECTS

At least one subject is from a contrasting discipline

3H2 + 1H1

OR

4H2

General Paper (GP)
Project Work (PW)
Mother Tongue (MT)

3 Compulsory
H1 Subjects

JC and MI: Admission Criteria

L1R5 : For Junior College Course	
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)

Gross L1R5 ≤ 20 (before computation of bonus points)

L1R4 : For Millennia Institute Course	
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)

Gross L1R4 ≤ 20 (before computation of bonus points)

JC and MI: Subject Requirements

Subject Requirements

Subject	Requirement
English Language	A1 to C6
Mother Tongue Language * : Chinese Language, Malay Language, Tamil Language	A1 to D7
<u>OR</u> Higher Chinese Language, Higher Malay Language, Higher Tamil Language	A1 to E8
<u>OR</u> Chinese Language 'B' Syllabus, Malay Language 'B' Syllabus, Tamil Language 'B' Syllabus	Merit or Pass
Mathematics: Mathematics	A1 to D7
<u>OR</u> Additional Mathematics	A1 to D7

How to calculate bonus points?

Table 1
Computation of Bonus Points

S/No	Type of Bonus Points	No. of Bonus Points	Maximum Bonus Points Allowable
1	For students seeking admission to JC/MI/Polytechnic/ITE and with the following co-curricular attainments/grades: a. Excellent, A1 – A2 b. Good, B3 – C6	2 points 1 point	Limited to a maximum of 4 Bonus Points for these 4 types.
2	For students seeking admission to JC/MI courses and with grades of A1 to C6 in both their first languages (i.e. English and a Higher Mother Tongue).	2 points	
3	For students seeking admission to JC/MI courses and with grades of A1 to C6 in Malay/Chinese (Special Programme) (MSP/CSP) or Bahasa Indonesia (BI) as their third language.	2 points	
4	For students from feeder schools if they choose their affiliated Junior College course(s) as their: a. 1 st choice, <i>or</i> b. 1 st and 2 nd choices.	2 points	Limited to a maximum of 6 Bonus Points .
5	For students who have applied for the CLEP, MLEP or TLEP and have been selected for the programme.	2 points	

JC and MI: 2022 Net L1R5 Aggregate

Table D-1 : L1R5 Aggregate Scores (with Bonus Points) of Students Admitted to JCs in the Previous Year's (2022) JAE

S/No	JC Name	Arts		Science/IB	
		Course Code	Previous (2022) JAE Net L1R5	Course Code	Previous (2022) JAE Net L1R5
1	Anderson Serangoon Junior College	39A	11	39S	10
2	Anglo-Chinese Junior College	22A	9	22S	8
3	Anglo-Chinese School (Independent)	-	-	51I	5
4	Catholic Junior College	23A	13	23S	13
5	Dunman High School	44A	9	44S	8
6	Eunoia Junior College	38A	8	38S	6
7	Hwa Chong Institution	24A	5	24S	4
8	Jurong Pioneer Junior College	40A	16	40S	14
9	Nanyang Junior College	26A	6	26S	5
10	National Junior College	27A	8	27S	7
11	Raffles Institution	28A	5	28S	4
12	River Valley High School	45A	9	45S	8
13	St. Andrew's Junior College	30A	11	30S	9
14	St. Joseph's Institution	-	-	52I	7
15	Tampines Meridian Junior College	41A	13	41S	13
16	Temasek Junior College	32A	9	32S	8
17	Victoria Junior College	33A	8	33S	7
18	Yishun Innova Junior College	42A	19	42S	19

Source: 2023 JAE Booklet, pg.108

JC and MI: Useful Information

School Code **0804**
ST ANDREW'S JUNIOR COLLEGE
Course Code (Arts) **30A**
Course Code (Science) **30S**

5 Sorby Adams Drive S(357691)

Tel : 62857008

Fax : 62850037

School Website :

standrewsjc.moe.edu.sg

www.facebook.com/standrewsjc

Bus Services : SBS Transit : 8, 26, 31, 90, 142, 151, 154, 506 (PIE – Jalan Toa Payoh slip-road)
13, 107, 107M, 133, 142, 147, 506, 853, 853C (Upper Serangoon Road)
142 (Potong Pasir Ave 1)
SMRT Buses : 857, 966, 985 (PIE)

Nearest MRT Station : Potong Pasir NE10 (7-min walk)

School Vision : Home of Servant Leaders who bring life to the Nations

School Mission : Making Lives and Waking Hearts to serve the coming days : Family-Society-Eternity

Type of School : Government-Aided/Mixed/Full Day

Mother Tongue : Chinese/Malay/Tamil

Bonus Points given for Affiliated Schools : Anglican High School, Christ Church Secondary School, Kuo Chuan Presbyterian Secondary School, Presbyterian High School, St. Andrew's Secondary School, St. Hilda's Secondary School, St. Margaret's Secondary School

Net Aggregate range of 2022 JAE students posted to 2022 JC1 : Arts : 4 to 11
Science : 2 to 9

Applicants should check the subject combinations offered in the Arts and Science courses and school-based criteria for subjects offered at standrewsjc.moe.edu.sg/curriculum/subject-combinations

Subjects Offered :

H1 Subjects

Art, Biology, Chemistry, Chinese Language, Economics, General Paper, Geography, History, Literature in English, Malay Language, Mathematics, Physics, Project Work, Tamil Language

H2 Subjects

Art, Biology, Chemistry, Chinese Language and Literature, Economics, Geography, History, Literature in English, Mathematics, Physics, Tamil Language and Literature

H3 Subjects (with MOE Partners)

Biology, Economics, Geography, History, Physics

H3 Subjects (within college) based on demand

Chemistry, Geography, History, Mathematics, Physics

MT 'B' Subjects

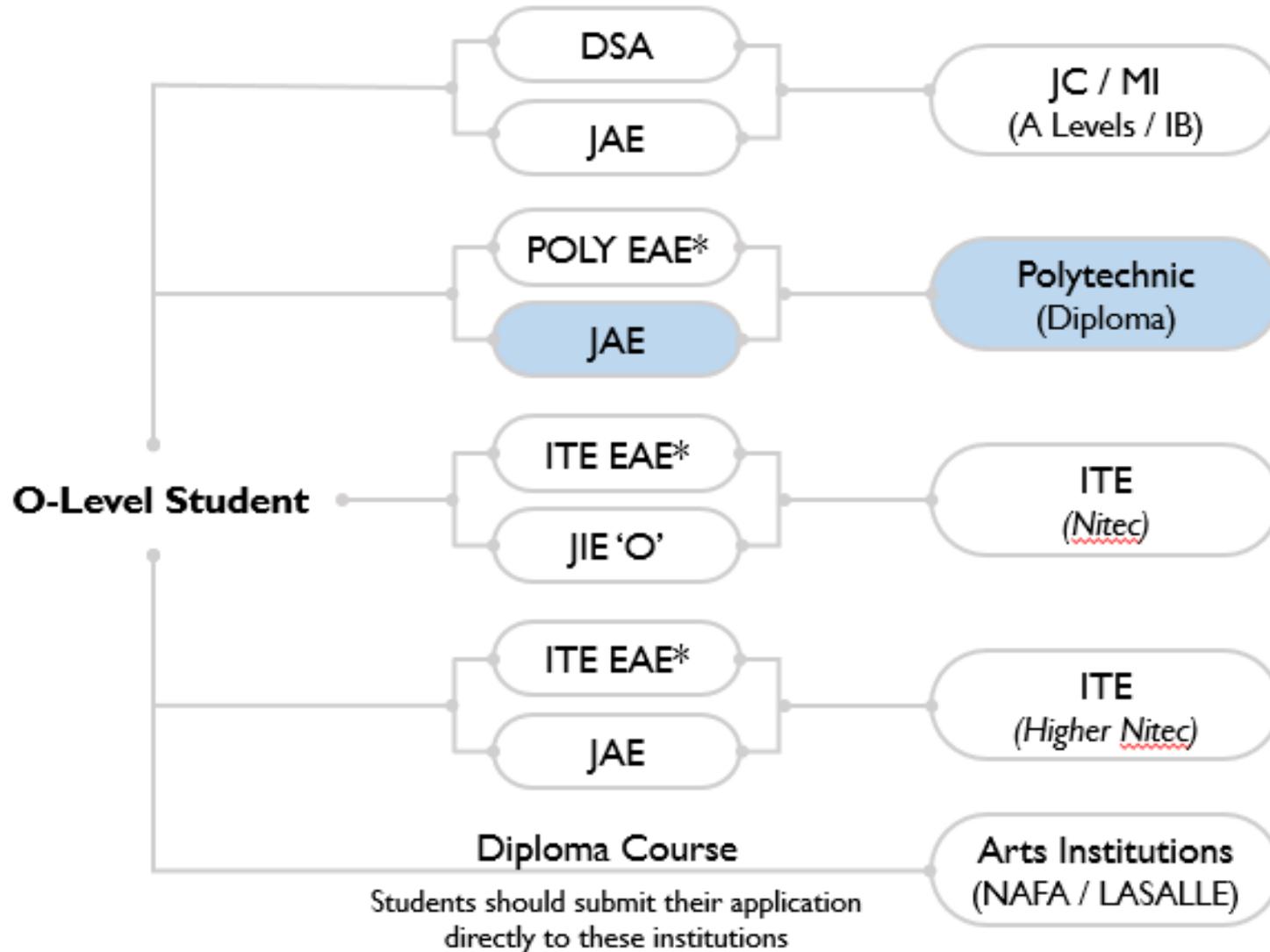


The Polytechnic Landscape

Why Choose Polytechnic Education?

- The classes are more spread-out over the day.
- There are more group projects.
- There is a need for consistency and discipline to maintain grades, as the results are calculated **cumulatively** over the three years.
- There is strong emphasis on practice-based learning.
- There is a larger emphasis on soft skills such as communication, presentation, problem-solving, creative thinking skills.
- The Diploma prepares you for the world of work

Polytechnic: Merit-based Admission (JAE)





Singapore Polytechnic



Ngee Ann Polytechnic



Temasek Polytechnic



Nanyang Polytechnic



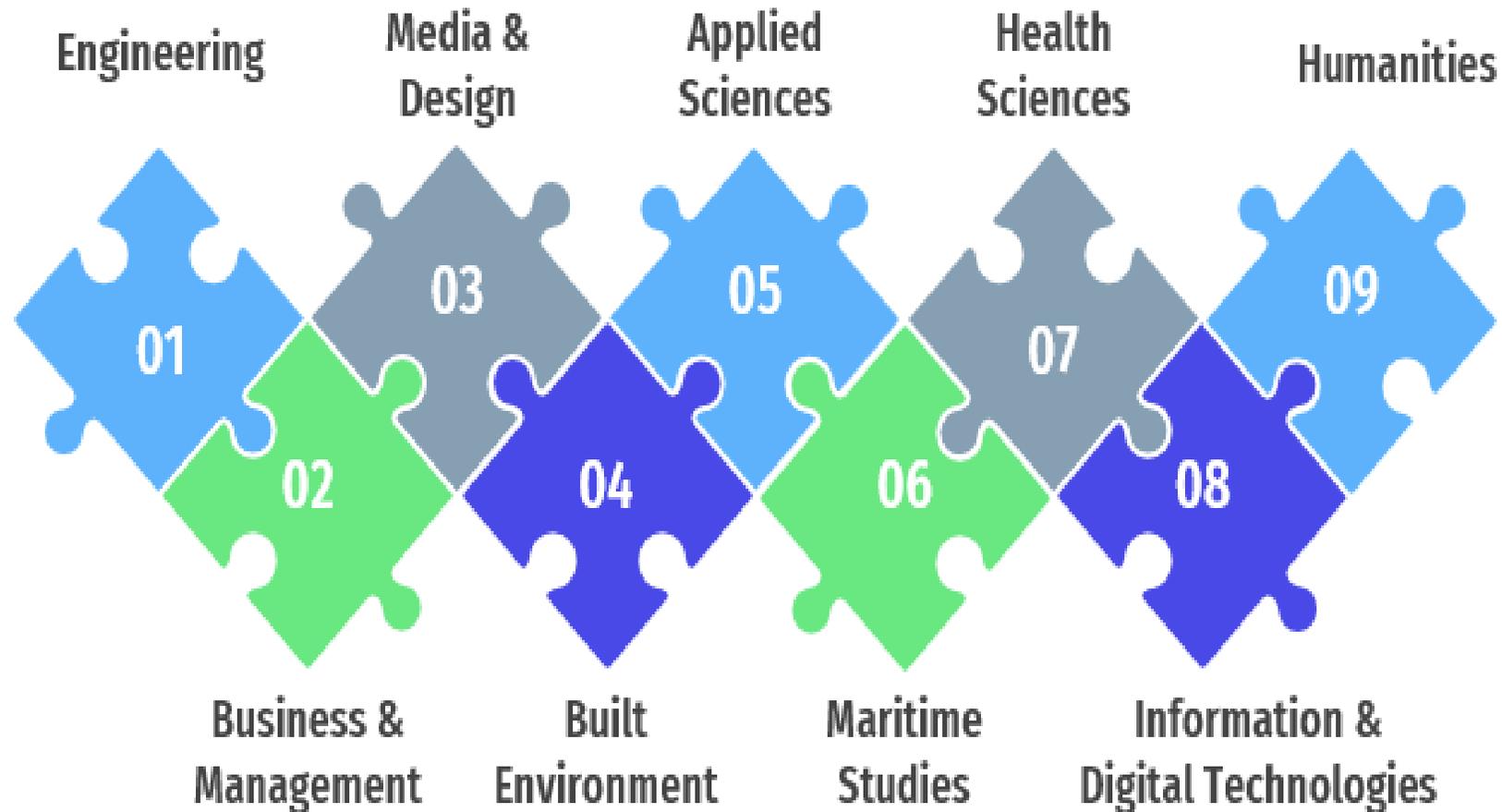
Republic Polytechnic

Poly courses focus on the **development of industry-relevant competencies**

Curriculum is **practice-oriented** and allows the **building of a strong theoretical foundation** and enables **direct application of knowledge and skills to real work**

Students **graduate with a Diploma**

Course Clusters in Polytechnics



Entry Requirements to the Polytechnics

Net ELR2B2 \leq 26 and fulfil Minimum Entry Requirements

A

- Humanities
- Media & Design

C

- Applied Sciences
- Engineering
- Health Sciences
- Information & Digital Technologies
- Built Environment

B

- Business & Management

D

- Built Environment
- Media & Design

Polytechnics: Minimum Entry Requirements

Subjects	English Language	Math	Net ELR2B2
Grades	A1 to C6/D7*	A1 to C6/D7*	≤ 26

- ***Minimum Entry Requirement (MER) VARIES across courses.**
- **Relevant Subjects (R2) vary from course to course.**

Selected Cut-Off Points from JAE 2022

Polytechnic	Name of Course	Cut-Off for 2022 JAE
Ngee Ann	Biomedical Science	8
	Pharmaceutical Science	9
	Accountancy	11
	Banking & Finance	11
	Business Studies	8
	Common Business	12
	Aerospace Engineering	19
	Cybersecurity & Digital Forensics	8
	Data Science	11
	Mass Communication	11

Selected Cut-Off Points from JAE 2022

Polytechnic	Name of Course	Cut-Off for 2022 JAE
Singapore	Biomedical Science	7
	Perfumery and Cosmetic Science	11
	Architecture	13
	Accountancy	12
	Banking & Finance	12
	Business Administration	12
	Engineering with Business	11
	Applied AI and Analytics	8
	Infocomm Security Management	11

What's right for your child?



GAN ENG SENG SCHOOL
2024 SEC 3
EXPRESS SUBJECT
COMBINATIONS



Why Subject Combination?

Sec 3 subject combination aims to give every Gessian the most appropriate subject combination so that he/she can develop to the best of his/her ability, interests and potential.



GAN ENG SENG SCHOOL 2024 SEC 3 EXPRESS SUBJECT COMBINATIONS

	Category A 7 Subjects	Category B 7 Subjects	Category C 8 Subjects	Category D 8 Subjects
Sub 1	English Language			
Sub 2	Mother Tongue			
Sub 3	Mathematics			
Sub 4	Humanities: Social Studies + Geography Elective OR Social Studies + History Elective (Students offering Pure History must offer Geography Elective, Students offering Pure Geography must offer History Elective)			
Sub 5	Additional Mathematics			
Sub 6	Science (Physics & Chemistry)	Pure Chemistry	Pure Chemistry	Pure Chemistry
Sub 7	Art Pure Geography Pure History Pure Literature Design and Technology (Choose 1) (only 2-3 subjects of these five will eventually be offered after the subject option exercise is concluded)	Pure Physics or Pure Biology (Choose 1)	Pure Physics or Pure Biology (Choose 1)	Pure Physics
Sub 8			Art Pure Geography Pure History Pure Literature Design and Technology (Choose 1) (only 2-3 subjects of these five will eventually be offered after the subject option exercise is concluded)	Pure Biology

Which Subject Combination?

In selecting the subject combination for your child/ward, the following should be taken into consideration:

- Understanding future post-secondary options
- Realistic expectations of your child's/ward's ability to cope with the demands of the course
- The academic rigour of the chosen subjects
- Consider child's/ward's needs, interest, preferences and well-being



O Level Samples – Pure Science

B7 The history of chemical formulae

The idea that chemical compounds could be represented by formulae was developed in the first part of the nineteenth century.

A French chemist called Joseph Proust developed the Law of Constant Composition in the early 1800s. He noticed that if different masses of metals were heated in air to constant mass, the increase in the mass was proportional to the mass of each metal used. His law states that,

'All samples of a particular chemical compound have the same elemental composition by mass.'

Proust collected data about the change in mass when the metals iron, lead and mercury were heated in air to constant mass.

He used the data to calculate the percentage composition by mass of the metal oxides.

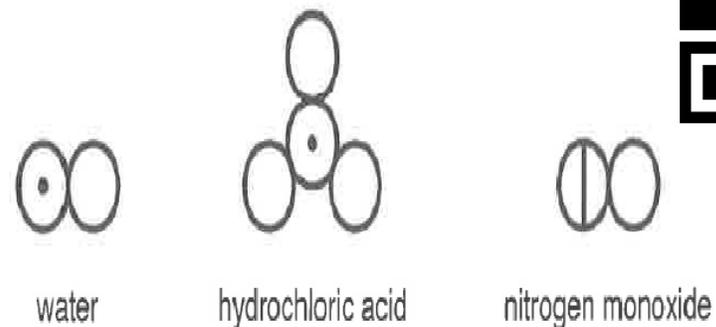
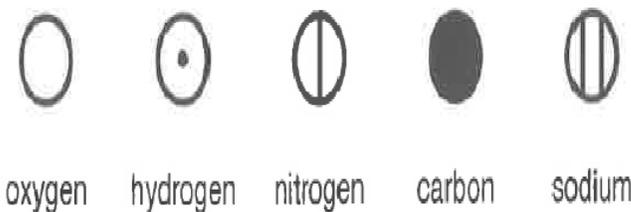
Table 1 shows some data from an experiment to find the increase in mass when iron, lead and mercury are heated.

Table 1

metal	mass of metal before heating/g	mass after heating to constant mass/g
iron	20.0	28.6
	30.0	42.7
lead	25.0	26.9
	30.0	32.3
mercury	25.0	27.0
	40.0	41.6

The Law of Constant Composition does not work for all metals because different oxides may be formed under different conditions.

John Dalton was a British chemist who worked a few years later than Proust. He realised that the Law of Constant Composition could be explained if all compounds contained small particles of each element. This was the beginning of atomic theory. Dalton developed symbols and used them to represent elements and compounds.



Some of our modern formulae for compounds show that Dalton's formulae were not always correct.

O Level Samples – Pure Geog

(b) Study Fig. 4, which shows the pattern of food consumption in a developed country (DC) and a less developed country (LDC).

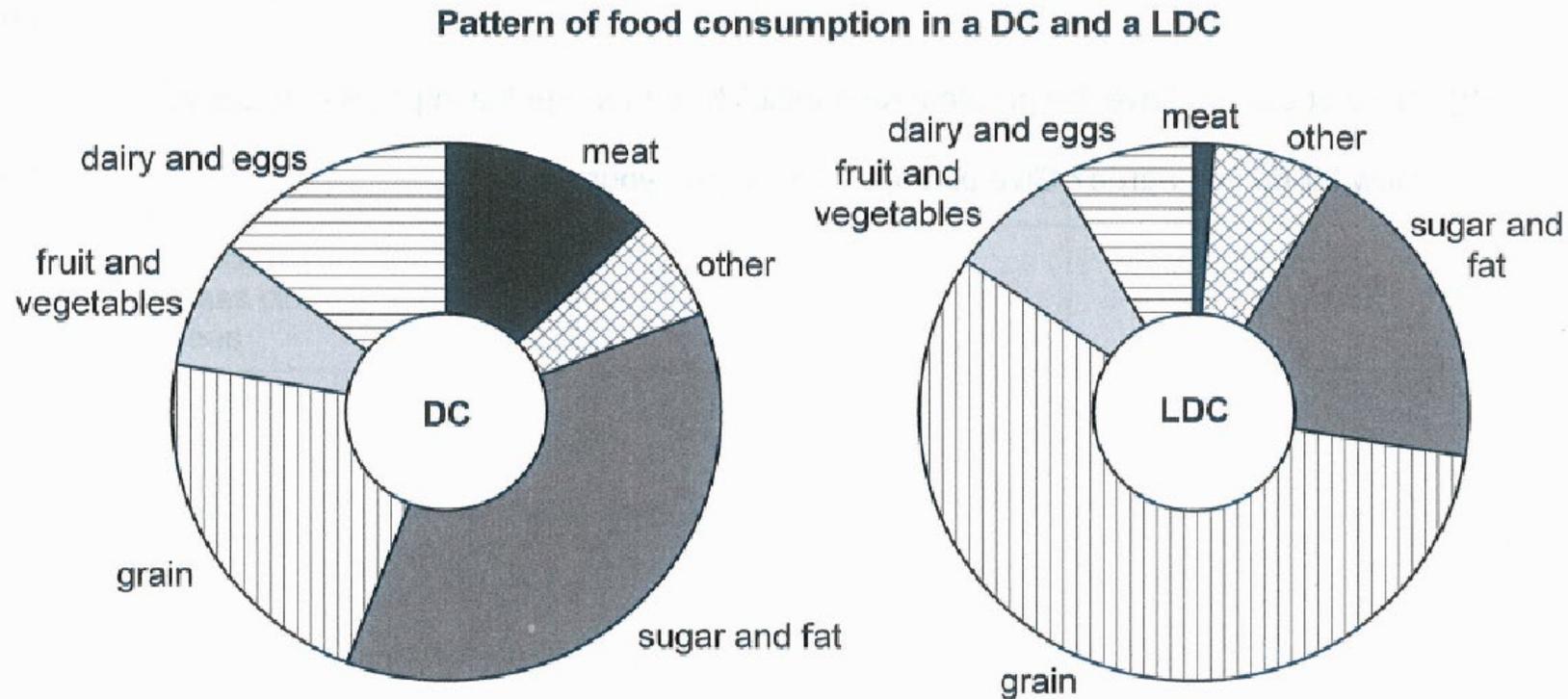


Fig. 4

- (i) Using Fig. 4, compare the pattern of food consumption in a DC and a LDC. [5]
- (ii) Use the information from Fig. 4 to explain the differences in the pattern of food consumption between a DC and a LDC. [5]



Common Misconceptions About Sec 3 Subject Combinations

- Taking 8 subjects is more “prestigious” than taking 7 subjects
- It’s better to take an 8th subject as an “insurance policy”
- Academically stronger students all take 8 subjects
- If my child/ward is strong in math, he/she will also be strong in science
- My child/ward needs to take Biology if he/she wants to be a doctor



Basis Of Sec 3 Subject Allocation Exercise

Subject allocation is based on:

- **Merit** (student's overall performance for 2024)

WA1+WA2+WA3+EYE

Term 1 WA 1 (10%)	Term 2 WA 2 (10%)	Term 3 WA 3 (10%)	Term 4 EYE (70%)
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- Stipulated criteria for each course
- Student's option
- Resource and Staffing



Timeline for Sec 3 (2024) Subject Allocation

31 March	Meet-the-Parent Session <u>Objective:</u> Communicate to students and their parents on subject combinations for 2024.
24 October	Release of Report Book after End of Year Exam and Option Exercise (Form SG) <u>Objective:</u> Allow students to select their desired course based on their overall academic performance and school's available resources.
26 October	Subject Allocation Exercise – submission of choices
07 November	Release of results for Sec 3 2024 Subject Allocation Exercise
By 10 November	Submission of and Processing Appeal Forms



How Do I Help My Child Academically?

- Insist on proper English at all times (will help for all subjects)
 - There is a difference between the following text messages:
 - “today we are gg 2 watch movie. I oreadi bought tics and oso ordered popcorn. Pls come on time. Im sure we will have alot of fun.”
 - “Today we are going to watch a movie. I have already bought tickets and also ordered popcorn. Please come on time. I’m sure we will have a lot of fun.”



How Do I Help My Child Academically?

- Get your child to explain graphs and diagrams from the newspapers to you. As they are explaining, nudge your child to draw conclusions from the data that they are seeing (will help for the sciences and humanities):
 - Go from: the number of people has increased by 90% in the last 5 years.
 - To: the number of people has increased by 90% in the last 5 years, and this means that it has put a greater strain on the country's resources as food production rates have stayed the same.



How Do I Help My Child Academically?

- Every subject is important, including Mother Tongue. If a student is not coping well, measures taken at home can also help.
 - Students will feel this effect particularly in Sec 4 (2nd half), where those who have performed well no longer have to study for Mother Tongue and can focus on their other subjects.
 - Psychological effect of having a good grade in the L1R5 computation.
 - Enforced Mother Tongue days at home.
 - Reading in Mother Tongue – underlining words that they don't know and using the dictionary to find out their meaning in English.



Gessian Stories...

Clemen Kok
Yu Shan



Class of 4D 2017 (EXP)
CCA: NPCC

Education Pathway:

- **JC** – Nanyang Junior College (A' Levels, Science)
- Imperial College London (Electronic and Information Engineering)

Notable Achievements in Post-Sec Institution

- 6 Distinctions + Outstanding in leadership development and CCA (Student Leader) 2020 (A' Levels, NYJC)

"GESS had given me many opportunities, nurturing teachers and most importantly, friends for life. Entering this formative time, I wanted to explore things I had not done before. I dabbled in the Uniformed Groups, Olympiads and even got to travel overseas to Hong Kong for cultural immersion.

The organisational abilities I developed, especially in NPCC, where I later returned to serve as Cadet Inspector, proved critical to my eventual career choice and success.

Philbert Lim
Sin Ping



Class of 4D 2012 (EXP)
CCA: Track and Field, Head Prefect

Education Pathway:

- **Poly** – Singapore Polytechnic (Diploma in Accountancy)
- Nanyang Technological University (Accountancy)
- Employment: Corrupt Practices Investigation Bureau

Notable Achievements in Post-Sec Institution

- Institutional & Gold Medallist + Chua Chor Teck Gold Medal + Institute of Singapore Chartered Accountants Gold Medal 2016 (Diploma in Accountancy, SP)

"My life in Gan Eng Seng School transformed me. As a Prefect, I learnt the importance of the school's core values and how teamwork is very important to any organisation to achieve common goals. My CCA, Track-and-Field, also gave me the avenue to relax and relieve some stress after long hours of lesson. Being an athlete gave me the opportunity to challenge my limits and allowed me to persevere to the end. Many friendships were forged in the process too. Most importantly,

I learnt that victory is not everything. The process is more important.

In Summary

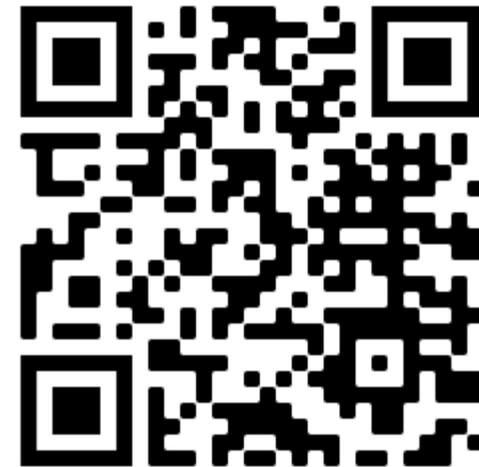
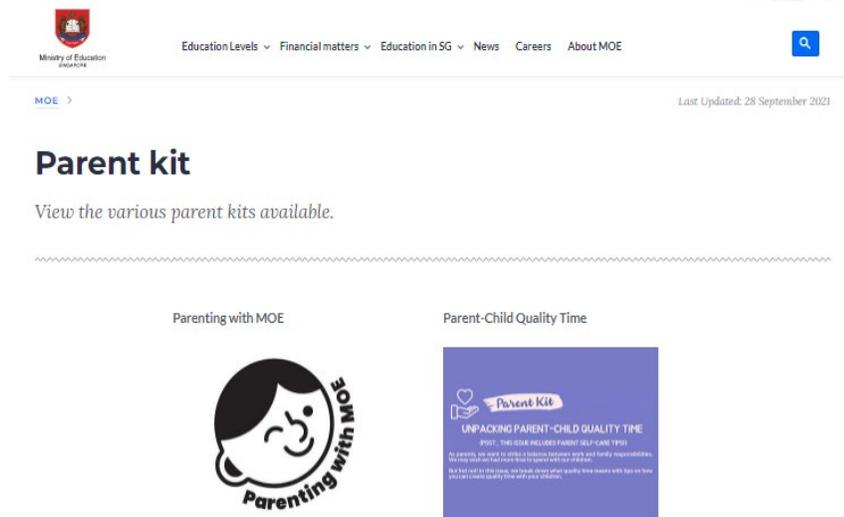
1. Know your child's strengths and potentials
2. Continue to emphasise the need to perform well holistically
3. Complement school's efforts in establishing good study habits.
4. Every subject is a good subject.
5. There will be success when the choice is right for your child.



Parents' Resources

- MOE has launched a website that provides tips and guidance on supporting your child/ward in their schooling years.

<https://www.moe.gov.sg/parentkit>



Thank You

ONWARD!

