Secondary 2
School Leader-Parent Engagement

5 April 2019

YISHUN SECONDARY SCHOOL
We Seek We Strive We Soar

Programme

6:15pm Parents to be seated

6.30pm Opening Address by Ms Regina Lee (Principal of Yishun Secondary School)

7:00pm Subject Streaming by Mr Tay (Vice Principal of Yishun Secondary School)

7:30pm Content Briefing by Various Head of Departments

8:00pm Form Teachers + Parent(s) Conference, if necessary

9.00pm End of Session

Opening Address

Ms Regina Lee, Principal Yishun Secondary School

Key Messages

- Singapore's education system is **broad-based** to ensure holistic development, yet **flexible and diverse** to meet the needs of everyone
- There are **multiple educational pathways** to suit your child's needs, abilities and learning styles
- We need to help them find the pathway that is the **best fit** for them
- Parents / Guardian and School need to work together to help child / ward to make an **informed** choice

Different Pathways

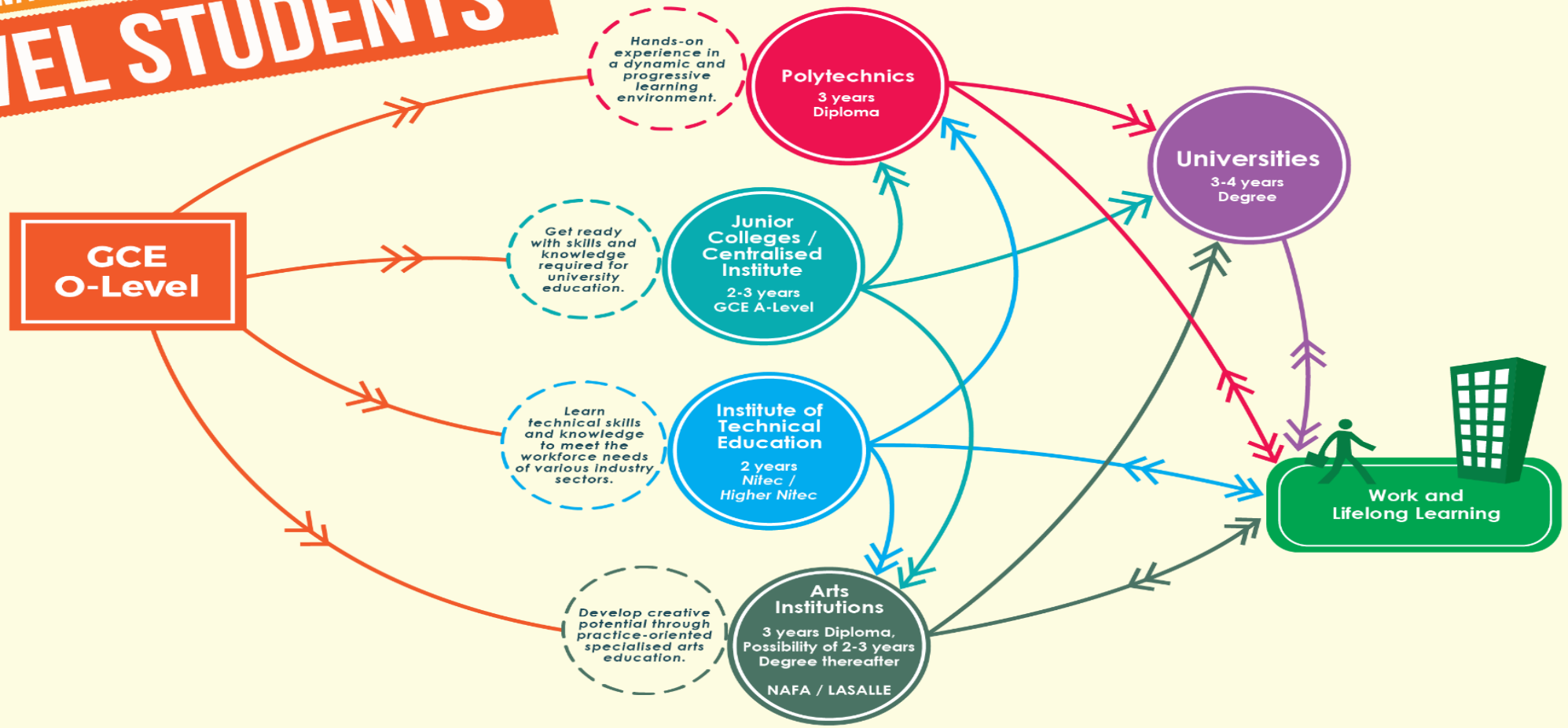
University Landscape: Updates

University admissions: Poly grads' O-level grades to be dropped from 2020

From 2020, polytechnic graduates applying to Singapore's local universities will not need to include their O-level results.

Only their polytechnic grade point average (GPA) will count towards the university admissions score they use in applying to the six publicly funded universities, except for certain courses with **subject-specific** requirements.

MULTIPLE PATHWAYS FOR O-LEVEL STUDENTS



HOW TO APPLY

JUNIOR COLLEGES/CENTRALISED INSITITUTE

* Joint Admissions Exercise (JAE)
* Direct School Admission-JC (DSA-JC) Exercise

POLYTECHNICS

* Joint Admissions Exercise (JAE)
* EarlyAdmissions Exercise (EAE)
* Direct Admissions Exercise (DAE)

INSTITUTE OF TECHNICAL EDUCATION

* Joint Intake Exercise (JIE) for *Nitec* courses
* Joint Admissions Exercise (JAE) for *Higher Nitec* courses
* Special College Admissions Scheme (SCAS)

ARTS INSTITUTIONS

* The Arts Institutions are the Nanyang Academy of Fine Arts (NAFA) and the LASALLE College of the Arts (LASALLE)
* Apply directly to the Arts Institutions
* Admissions information is available on the NAFA and LASALLE websites

For more information on JC, Poly and ITE Admissions, visit http://www.moe.gov.sg/admissions/

Ministry of Education
SINGAPORE

MULTIPLE PATHWAYS FOR N(A) AND N(T) STUDENTS

GCE N-LEVEL N (A) [4 YRS]

GCE N-LEVEL N (T) [4 YRS]

POLY FOUNDATION PROGRAMME (PFP)* [1 YR]

GCE O-LEVEL [1 YR]

ITE HIGHER NITEC [2 YRS]

PREPARATORY COURSE [10 WKS] + DIRECT-ENTRY-SCHEME TO POLY PROGRAMME (DPP)* VIA ITE HIGHER NITEC [2 YRS]

NITEC [2 YRS]

POLY

UNI

NAFA/ LASALLE

JC/CI

WORK & LIFELONG LEARNING

*For more information on DPP and PFP, please visit these websites:

- Direct-Entry-Scheme to Poly Programme (DPP) www.ite.edu.sg/wps/portal/definitely-des
- Poly Foundation Programme (PFP) pfp.polytechnic.edu.sg

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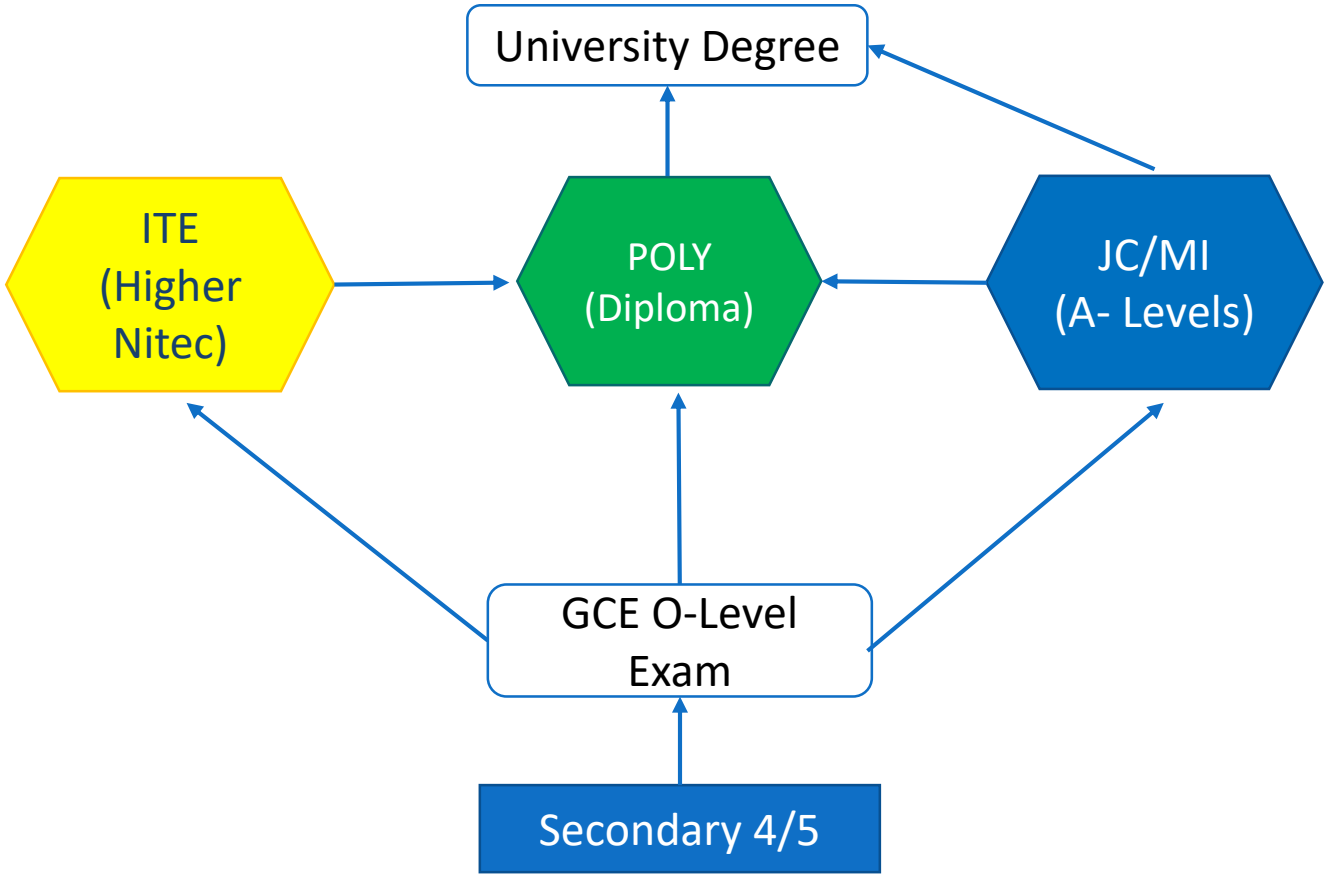
Pathways for O – Level Students

Pathways for O – Level Students



Entry into JC or MI

2 possible ways

O-Level results meet the cut-off point

To enter a JC:

L1R5 must be <= 20

To enter MI:

L1R4 must be <= 20

Direct School Admission (DSA-JC) - JCs recognise special talents and aptitudes through discretionary admission

Computation of Aggregate – L1R5

	L1R5 : For Junior College Course (2 years)	
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 excluding CCA
	Relevant Subject 5	Any GCE 'O' Level subjects excluding CCA

Direct School Admission - JC

- The DSA-JC allows students to seek admission to a junior college (JC) on the basis of talents and achievements that may not be demonstrated at the GCE 'O' Level Examination.

- Application usually starts after the mid year exams. After which, students may need to attend try-outs, interviews, etc., during the June holidays.

- Even when offer is accepted, the student still need to meet the minimum requirement i.e. **L1R5 <=20**, and must pass all subjects.

Admission

Ministry of Education [SG] | https://yijc.moe.edu.sg/prospective-students/admissions/direct-admission

Home / Prospective Students / Admissions / Direct Admission

Direct Admission

Application for Direct School Admission to JC1 Academic Year (AY) 2019 has closed.

Application for DSA-JC Exercise 2018 (for AY 2019) was conducted from **07 May 2018** to **30 August 2018**.

For details on DSA-JC Exercise, please refer to MOE's website here.

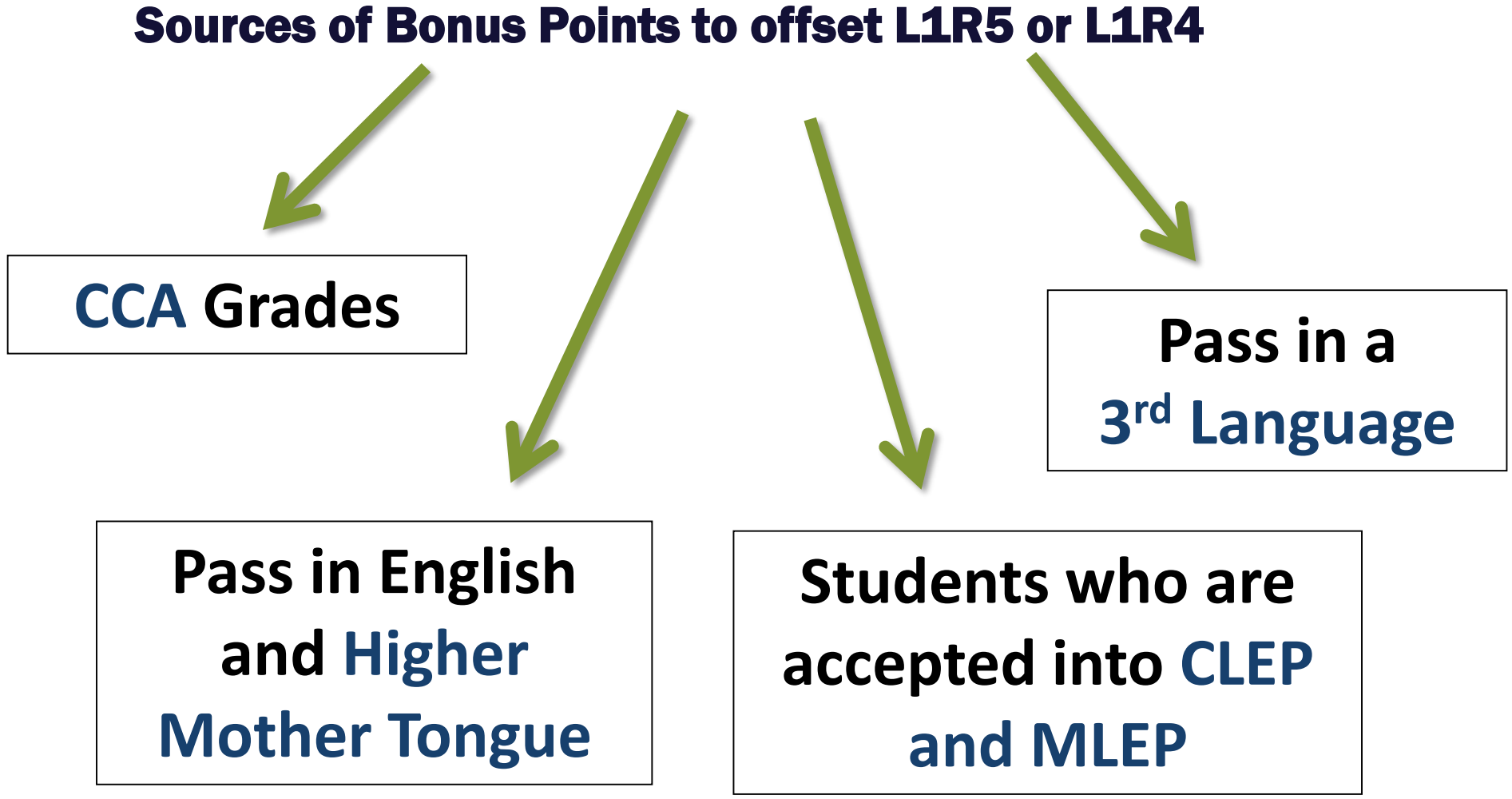
In this section

- JAE Appeal
- Direct Admission
- International Students
- Returning Singaporeans

Computation of Aggregate – L1R4

	L1R4 : For Millennia Institute Course (3 years)	
L1	**First Language**	English / Higher Mother Tongue
R4	**Relevant Subject 1**	Humanities/ Higher Art/ Higher Music/ Science/ Mathematics/ Malay (Special Programme)/ Chinese (Special Programme)/ Bahasa Indonesia
	Relevant Subject 2	Humanities/ Higher Art/ Higher Music/ Science/ Mathematics/ Malay (Special Programme)/ Chinese (Special Programme)/ Bahasa Indonesia
	Relevant Subject 3	Any GCE 'O' Level subjects excluding CCA
	Relevant Subject 4	Any GCE 'O' Level subjects excluding CCA

Bonus Points

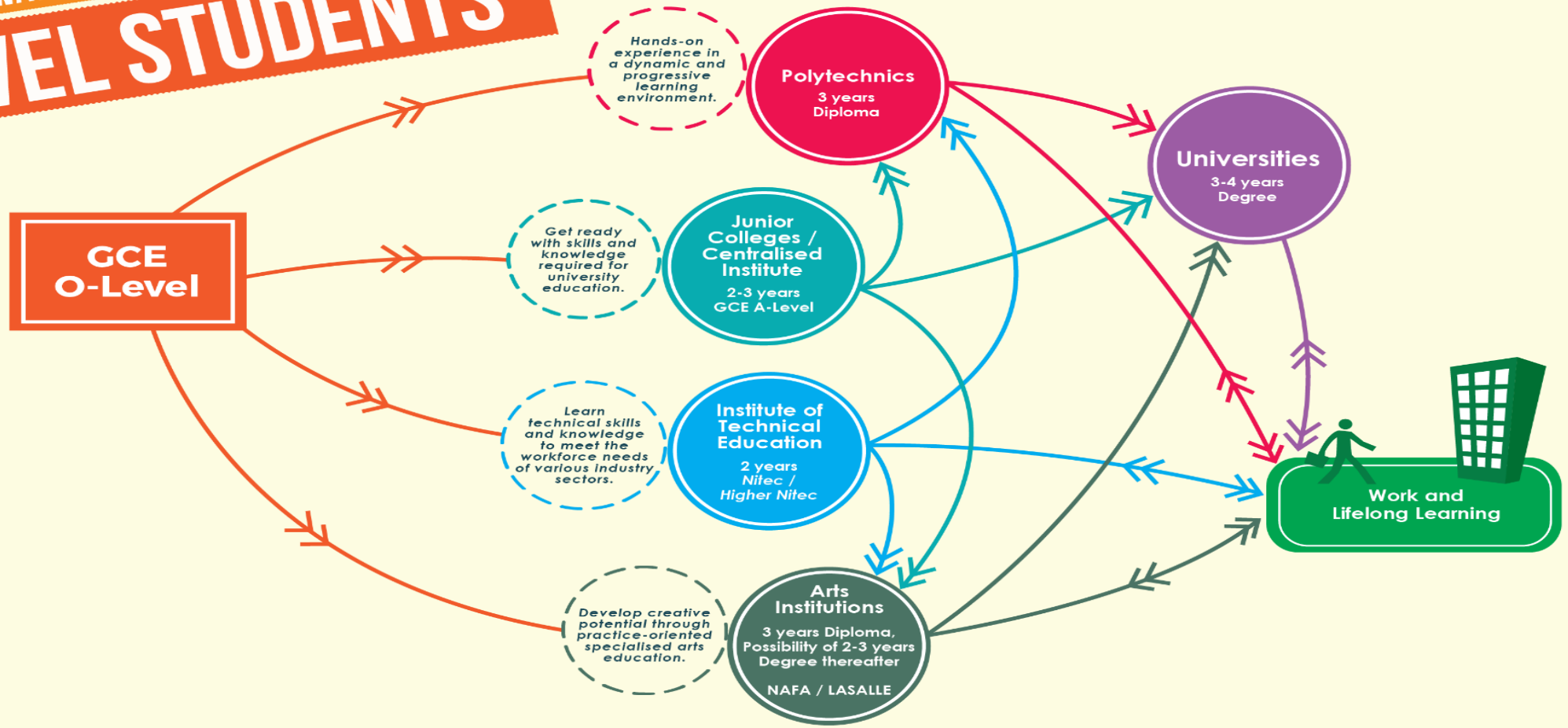


Computation of Aggregate – Points to take note

- The Humanities group consists of Literature, Geography and History
- The Science group consists of all science subjects
- The Mathematics group consists of all mathematics subjects. Grades for both the Higher Mother Tongue (HCL , HML , HTL) and Mother Tongue (CL, ML, TL) cannot be used in the same aggregate computation
- 'Merit' and 'Pass' grades for the Mother Tongue Language 'B' syllabus (CLB , MLB, TLB) can be accepted as meeting the minimum requirement for entry to Pre-U course. However, these grades cannot be used for the computation of aggregate points

Entry Requirements for Polytechnics

MULTIPLE PATHWAYS FOR O-LEVEL STUDENTS



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Computation of Aggregate – ELR2B2 (Polytechnic)

Applicants must obtain 26 points or better for EL R2 B2 aggregate score:

	ELR2B2 for Poly Courses
L1	English
R1	Elementary & Additional Maths, Geography, Higher Art, Higher Music, History, Humanities (Social Studies, History), Humanities (Social Studies, Geography), Literature in English, Literature in Tamil, Music
R2	Geography, Higher Art, Higher Music, History, Humanities (Social Studies, History), Humanities (Social Studies, Geography), Literature in English, Literature in Tamil, Music, Design & Technology, Food & Nutrition
B2	Best 2 Other subjects

Adapted from Temasek Poly Website

Entry Into Polytechnic

4 possible ways

- Using O-Level results – Joint Admissions Exercise (JAE)
- Through the Early Admissions Exercise (EAE)
- For Sec 4 N(A) students, Direct Entry Scheme to Polytechnic Programmes (DPP)
- For Sec 4 N(A) students, Polytechnic Foundation Programme (PFP)

Differences between PFP and DPP

Polytechnic Foundation Programme (PFP)

1 year foundation course in the Polytechnic after 'N' Levels

Direct Entry Scheme to Polytechnic Programmes (DPP)

Higher Nitec Course in ITE (2 years)

First or Second year in related Polytechnic Course if qualifying GPA is met

PFP: (NA) Polytechnic Foundation Programme

For Courses featured in Group 1	Minimum Required Grades	For Courses featured in Group 2	Minimum Required Grades
English Language Syllabus A	3	English Language Syllabus A	2
Mathematics Syllabus A / Additional Mathematics	3	Mathematics Syllabus A / Additional Mathematics	3
One of the following relevant subjects: - Design and Technology - Food and Nutrition - Science (Chemistry, Biology) - Science (Physics, Biology) - Science (Physics, Chemistry)	3	One of the following relevant subjects: - Art - Literature in English - History - Combined Humanities - Geography - Principles of Accounts	3
Any two other subjects excluding CCA	3	Any two other subjects excluding CCA	3

PFP: (NA) Polytechnic Foundation Programme

- Students are allowed to combine their ‘N’ Level & ‘O’ Level results to compute their eligibility

- ‘O’ level grades will not be reflected in the N’ level results slip

The following GCE ‘O’-Level Grade conversion matrix will be adopted during the computation of aggregates.

'O'-Level Grade	Aggregate Point for PFP
A1 - B3	1
B4 - C6	2
D7	3

'O'-Level grades not listed above cannot be used to determine PFP eligibility (i.e. 'O'-Level grades E8 and F9 do **not** count towards either the ELMAB3 aggregate score computation or in determining if minimum entry requirements for the PFP course have been met).

Polytechnic Cut Off Point [COP]

Polytechnic	Course	2018 COP
Singapore Polytechnic (SP)	Biomedical Science	7
	Architecture	12
	Banking & Finance	10
	Mechatronics & Robotics	13
Ngee Ann Polytechnic (NP)	Pharmaceutical Science	8
	Hotel & Leisure Facilities Management	12
	Accountancy	9
	Engineering Science	8
Nanyang Polytechnic (NYP)	Molecular Biotechnology	10
	Mass Media Management	14
	Animation	11
	Cybersecurity & Digital Forensics	10

EAE: Polytechnic Early Admissions Exercise

- The polytechnic EAE is an aptitude-based admissions exercise that allows students to apply for and receive conditional offers for admission to polytechnics prior to receiving their final grades.

- It allows the polytechnics greater flexibility to select and admit students based on their aptitudes and interests, apart from academic grades, thus allowing a wider range of talents to be recognized.

- Application usually starts during the last week of June holidays. There are certain requirements to be fulfilled to submit the application. After which, students will be required to attend interviews, tests, etc., during term 3.

- Even when offer is accepted, student still need to meet the minimum requirement of the course i.e. **L1R2B2 <=26** and must pass all the subjects.

Not secure | www.polytechnic.edu.sg/admissions-exercises

JOINT PORTAL OF THE POLYTECHNICS IN SINGAPORE

Home

Introduction

› Admissions Exercises

Other Useful Information

Admissions Exercises

Candidates may apply for admission to any polytechnic course through one of the following:

Early Admissions Exercise

The Early Admissions Exercise (EAE) is an aptitude-based admissions exercise that allows students to apply and receive conditional offers for admission to the polytechnics based on their aptitudes and interests, prior to receiving their final grades. It gives the polytechnics greater flexibility to select and admit students on criteria other than their academic grades, thus allowing a wider range of talents to be recognised.

Polytechnic Foundation Program Admissions Exercise

The Polytechnic Foundation Programme (PFP) is a one-year programme that offers a practice-oriented curriculum taught by polytechnic lecturers, to better prepare polytechnic-bound N(A) students for entry into the relevant Polytechnic Diploma courses. This is an alternative to the Sec 5 year.

PFP

Junior College Vs Polytechnic

Key Differences	Junior College (JC)	Polytechnic
Mode of Learning	• More academic / theoretical in approach • Few core subjects over 2 years	• Emphasizes industry relevant skills through applied learning • Bite-sized (approx. 6 per semester)
Assessment Approach	High stakes national examination at the end of 2 years	Modular approach; each module counts towards cumulative GPA
Curriculum	Common curriculum from MOE	Curriculum customized by each polytechnic

Streaming Exercise

Mr Tay, Vice-Principal Yishun Secondary School

Streaming Exercise – Key Principles

Offering our students subject combinations that will provide them with a wide range of choices for post-secondary education.

Streaming Exercise will be based on **ability**, **interest** and **resource availability**.

To split existing classes to **smaller** classes sizes

Streaming Exercise – Rationale for Banding

Students will be banded based on their aptitude for Sciences (Mathematics and Science) as well as Humanities (History, Geography and Literature)

This will serve as a guide for the streaming committee to allocate students where they can best build on their strengths

Streaming Exercise – Ranking

All students are ranked based on their overall percentage for for all subjects

Rank order will affect their chances of being streamed into a class of their choice

Streaming Exercise – Subject Criteria

Some subjects require a minimum standard that students must achieve for specific subjects in their Secondary 2 examinations

However, the subject criteria may be subjected to further changes

2020 Subject Combination for Secondary 3 [Normal Academic / Express]

Mr Tay, Vice-Principal Yishun Secondary School

Normal Academic

	3N1	3N2	3N3
1	English Language Syllabus A	English Language Syllabus A	English Language Syllabus A
2	Mother Tongue	Mother Tongue	Mother Tongue
3	Humanities (Social Studies, History) / Humanities (Social Studies, Geography)	Humanities (Social Studies, History)	Humanities (Social Studies, Geography)
4	Science (Physics, Chemistry)	Science (Chemistry, Biology)	Science (Physics, Chemistry)
5	Mathematics	Mathematics Syllabus A	Mathematics Syllabus A
6	Additional Mathematics	Art / Design and Technology / Food and Nutrition	
7	Principles of Accounts		

Express

	3E1	3E2	3E3	3E4	3E5
1	English Language	English Language	English Language	English Language	English Language
2	Mother Tongue	Mother Tongue	Mother Tongue	Mother Tongue	Mother Tongue
3	Mathematics	Mathematics	Mathematics	Mathematics	Mathematics
4	Humanities (Social Studies. Geography)	Humanities (Social Studies, History)	Humanities (Social Studies. Geography)	Humanities (Social Studies. Geography)	Humanities (Social Studies, History)
5	Chemistry	Science (Biology, Chemistry)	Science (Physics, Chemistry)	Science (Physics, Chemistry)	Science (Chemistry, Biology)
6	Physics	Literature in English	Design and Technology	Art	Food and Nutrition
7	Additional Mathematics	Additional Mathematics	Additional Mathematics	Additional Mathematics	Principles of Accounts
8	Biology / History / Literature in English				

Selection Criteria for Subjects (tentative)

Mr Tay, Vice-Principal Yishun Secondary School

Selection Criteria : Tentative

Subject	Criteria
Additional Mathematics	≥ 60% in Mathematics (Exp) ≥ 70% in Mathematics (NA)
Physics (Pure) Chemistry (Pure)	≥ 70% in Science
Biology (Pure)	≥ 70% in Science ≥ 60% in English Language
Science (Chemistry, Biology)	≥ 60% in English Language

Selection Criteria : Tentative

Subject	Criteria
History (Pure)	≥ at Least a “B” grade in Lower Secondary History
Literature in English (Pure)	≥ 65% in English ≥ 65% in Literature

Selection Criteria : Tentative

Subject	Criteria
Food & Nutrition	≥55% in English Language ≥65% in Food and Consumer Education
Design & Technology	≥60% in D&T
Art	≥65% in Art

Timeline

Term 2 Week 3 – Term 2 Week 5	• Content Briefing to Students
Term 1 – Term 4	• Academic Monitoring
Term 1 – Term 4	• Remediation by Subject Teachers
Term 2 Week 10	• Mock Streaming
Term 3 Week 1	• Briefing of Streaming Exercise
Term 4 Week 6	• Submission of Streaming Exercise
Term 4 Week 7	• Release of Streaming Results
Term 4 Week 10	• Release of Appeal Results

Content Briefing

Various Heads of Department, Yishun Secondary School

YISHUN SECONDARY SCHOOL

We Seek We Strive We Soar

Express

Pure Sciences

Physics (6091) ,Chemistry (6092) and Biology (6093)

Combined Sciences

Science – Phy/Chem (5076) and Science - Chem/Bio (5078)

Normal Academic

Combined Sciences

Science – Phy/Chem (5015) and Science - Chem/Bio (5017)

Mr. Yeo Zhong Wei , HOD Science

Combined Science (Phy/Chem or Chem/Bio)
Pure Physics & Pure Chemistry

1. Improve scientific literacy, develop informed interest in matters of scientific importance and become confidant citizens in a technological world.
2. Major topics broadly involve (for both NA and Express)
   - Physics –Newtonian mechanics, Thermal physics, Waves, Electromagnetism
   - Chemistry – Experimental Chemistry, Atomic structure, Reactions, Periodicity
   - Biology – Maintenance and regulation of life process, principles of biology
3. Express Comb. science covers ~20% more content compared to N(A)
4. Pure Sciences covers ~20% more content compared to Comb. Science.
5. General Tips: how to do well for the subject
   - Understand the concepts, take an interest in the subject
   - Take assignments seriously
6. For Pure sciences, need to be conscientious and be willing to cope with heavy workload (Pure Physics & Pure Chemistry each ≥ 70% in Science and Pure Biology ≥ 70% in Science & ≥ 60% in English Language)

Pure Biology

Pure Biology – topics similar to previous slide

- Pure Biology is taken as an 8th subject – should be strong in sciences
- Need to have good language skills – long essay questions
- Commitment and interest is important - those taking pure biology will be taking 3 pure sciences, heavy workload and time commitment (three lab work)
- **NOT** a requirement for medical/pharma/biotech studies
- Eligible to those who score at least 70% for Science and 60% for English

Express

Pure Humanities

History (2174)

Humanities

Humanities – SS /Geography (2272) and
Humanities – SS /History (2273)

Principles of Accounts (7175)

Normal Academic

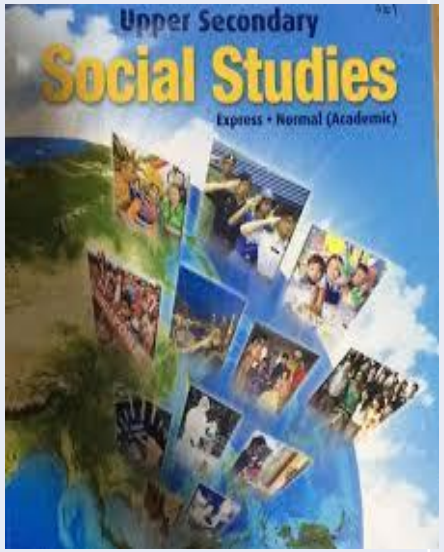
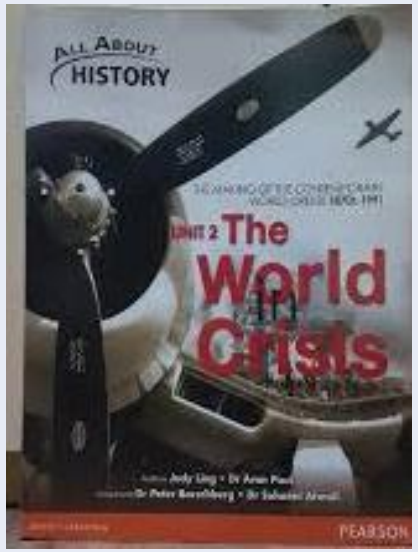
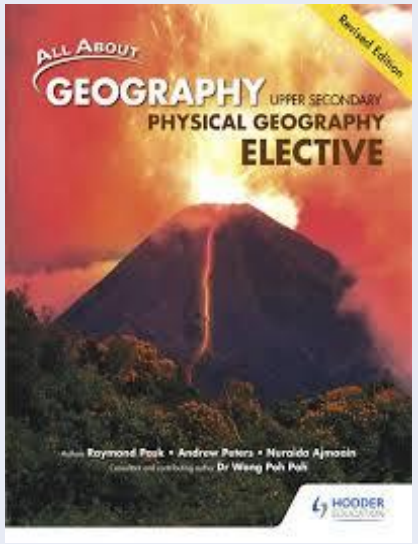
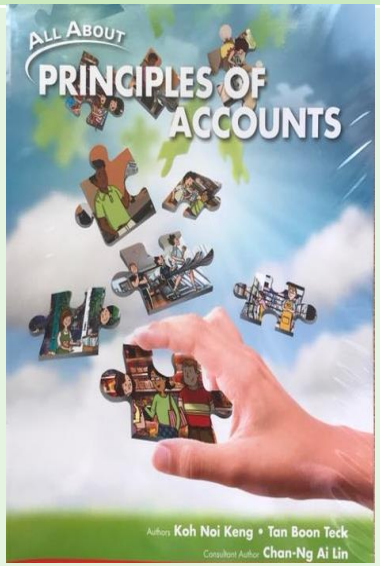
Humanities

Humanities – SS /Geography (2175) and
Humanities – SS /History (2176)

Principles of Accounts (7088)

Mdm Faizah, HOD Humanities

Humanities Subjects

(Compulsory)	Choose Either One		By Choice (3E5 & 3N1)
Social Studies	History Elective	Geography Elective	Principles of Accounts
			
- Critical Inquiry - Investigation - Examine issues in society, locally and globally	- Historical Inquiry - Acquire historical understanding and disposition to understand the present and contribute as local and global citizens	- Develop understanding of physical environment–human relationships - Gain insights into current and future environmental issues	- Acquire concepts, theories and procedures related to accounting

Topics of Various Humanities Subjects

Social Studies	History Elective	Geography Elective	Principles of Accounts
Issue 1 : *Exploring Citizenship and Governance* - What is good for society? - How can we work for good of society?	Issue 1 : *Impact of WW1*	**Theme 1 :** *Our Dynamic Planet (Physical Geo)* - Living with tectonic hazards – risk or opportunity? - Variable Weather and Changing Climate – a continuing challenge?	Section 1: *The Roles of Accounting*
	Issue 2 : *Rise of Authoritarian Regimes*		Section 2: *The Accounting Information System*
Issue 2 : *Living in Diverse Society* - Why is there greater diversity in Singapore now? - How can we respond to diverse society?	Issue 3: *World War II in Europe and the Asia–Pacific*	**Theme 2 :** *Our Changing World (Human Geo)* - Global Tourism – Is tourism a way to go?	Section 3: *Elements of the Financial Statements*
			Section 4: *The Financial Statements*
Issue 3 : *Being Part of a Globalised World* - How can we respond to impact of globalisation?	Issue 4 : *Bipolarity and Cold War*	**Theme 3 :** *Geographical Skills and Investigations* - Topo maps - Geographical data and techniques - GI	Section 5: *Business Entities*
			Section 6: *Financial Statements Analysis*

Assessment of Humanities Subjects

Level of Assessment	Social Studies +	History Elective	Geography Elective	Principles of Accounts
1	Knowledge and Understanding			
2 3	Interpreting and Evaluating Sources Construct Explanation * Suggest recommendations *Interpreting and Evaluating Geographical Data			Application Analysis and Synthesis interpretation, of accounting information
4	Critical Thinking and problem-solving skills are invaluable benefits of a Humanities Subjects			Evaluate and Interpret accounting information to make judgements and recommendations. (O levels)

2020 Secondary 3E1

Offering 2 Humanities :

- Humanities Subject 1 : Geography Elective + SS
- Humanities Subject 2 : Pure History

To be eligible for pure History, students should:

- obtain at least a “B” grade for lower sec history.
- have a keen interest in historical research and understanding

Eligibility for Junior College (L1R5)

	L1R5: For JC 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 excluding CCA and Religious Knowledge
	Relevant Subject 5 – Any GCE 'O' Level subjects excluding CCA and Religious Knowledge

Eligibility for Polytechnic (ELR2B2)

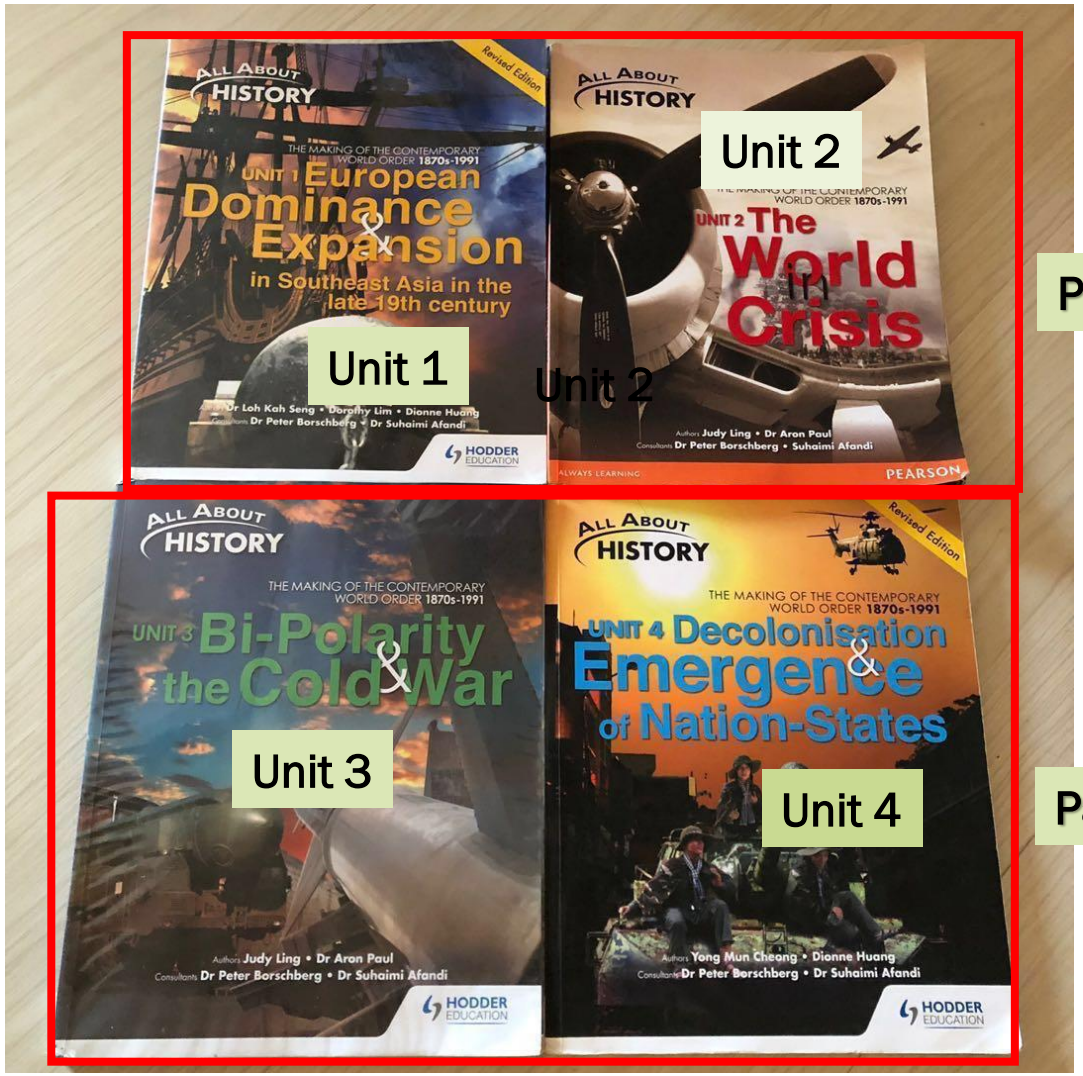
	ELR2B2 for Poly Courses
L1	English
R1	Elementary & Additional Maths, Geography, Higher Art, Higher Music, History, Humanities (Social Studies, History), Humanities (Social Studies, Geography), Literature in English, Literature in Tamil, Music
R2	Geography, Higher Art, Higher Music, History, Humanities (Social Studies, History), Humanities (Social Studies, Geography), Literature in English, Literature in Tamil, Music, Design & Technology, Food & Nutrition
B2	Best 2 Other subjects

Adapted from Temasek Poly Website

Humanities + Pure History

Social Studies	Geography Elective	Pure History
Issue 1 : *Exploring Citizenship and Governance* - What is good for society? - How can we work for good of society?	**Theme 1 :** *Our Dynamic Planet (Physical Geo)* - Living with tectonic hazards – risk or opportunity? - Variable Weather and Changing Climate – a continuing challenge?	**Unit 1** – *European Dominance and Expansion in the late 19th century*
		Unit 2 –*The World in Crisis*
Issue 2 : *Living in Diverse Society* - Why is there greater diversity in Singapore now? - How can we respond to diverse society?	**Theme 2 :** *Our Changing World (Human Geo)* - Global Tourism – Is tourism a way to go?	**Unit 3** – *Bi-Polarity and the Cold War*
Issue 3 : *Being Part of a Globalised World* - How can we respond to impact of globalisation?	**Theme 3 :** *Geographical Skills and Investigations* - Topo maps - Geographical data and techniques - GI	**Unit 4** – *Decolonisation and Emergence of Nation-States*

Pure History Syllabus



Relevance of Humanities Subjects

Pure History/ History Elective	Geography Elective	POA
❖ Heritage manager ❖ Museum education officer ❖ Museum or gallery curator ❖ Secondary school teacher ❖ Archaeologist ❖ Archivist ❖ Civil Service administrator ❖ Politician's assistant ❖ Foreign embassies ❖ Political Scientist	❖ Cartographer. ❖ Commercial/residential surveyor. ❖ Environmental consultant. ❖ Town planner. ❖ Sustainability consultant ❖ Transport planner ❖ Conservation Officer	❖ Chartered certified accountant ❖ Chartered public finance accountant ❖ Company secretary ❖ Stockbroker ❖ Data analyst ❖ Economist ❖ Insurance ❖ Auditor ❖ Retail Banker ❖ Tax Advisor

Express
Literature in English (2065)

Mrs Audrey Ee , HOD English & Literature

Literature in English

PAPER 1 (50%)	PAPER 2 (50%)
Set Text (*The River Between* by Ngũgĩ wa Thiong'o) - Essay OR Passage-based Question - Unseen Poetry	Drama (*Off-Centre* by Haresh Sharma) - Essay - Passage-based Question

WHAT TO EXPECT

- Experiencing Story – Plot, Character, Setting and Atmosphere
- Appreciating Style - Writer's Craft, Plot, Character, Setting and Atmosphere
- Interpreting Theme
- Responding through Dialogue and Writing

HOW STUDENTS CAN DO WELL

- Familiarity with the text - names of the characters, places, sequences of events and the results of the events.
- Clear and structured delivery of points in proper paragraphs – Point, Evidence, Analysis

CRITERIA

- A good pass for both EL and Literature at Secondary 2
- Be able to articulate their views and feelings, and be open to new ideas and other points of view.

Literature teaches one about understanding human behavior, valuing different perspectives and relating to others. These are important soft skills that will help us to navigate our way in a rapidly changing world.

Express
Additional Mathematics (4047)

Normal Academic
Additional Mathematics (4044)

Mrs Phua , HOD Mathematics

Additional Mathematics

Nature/Scope

Assume the knowledge of O Level Math content and includes more in-depth some topics.

- Major topics includes :
  - Algebra – Functions, polynomials, logarithm
  - Geometry & Trigonometry - geometry proofs, trigonometric ratios and identities,
  - Calculus - Differentiation & Integration,
  - Math Processes - develop reasoning, problem-solving skills,proofs and making connections among mathematical concepts.

Additional Mathematics

Criteria/Aptitude :

- For 3E Add Math : Achieve a good pass at Sec 2 overall for E Math ,
- For 3NA Add Math: Achieve a good pass in NA Math and must be doing O Level Math
- must enjoy practicing Math problems especially **algebra;**
- have high level of perseverance, independence and diligent.

Prospects :

- In Junior College (L1R5) :
  - H1 Math builds on O level Math;
  - H2 Math assume some of A Math content, H3 is an extension of H2.
- In Polytechnics :
  - Only need 1 Math subject (normally E Math, or A Math in E**M**R3);
  - *PFP (MA ≤3), DPP (MA ≤ 4)*
  - *E**M**B3 ≤19 for 4NA to 5NA.*

Career prospects : Computer Science & Engineering courses in Polytechnics and University (Aerospace, civil, bioengineering, mechanical, computer science)

Express

Art (6123) ,
Food & Nutrition (6087) ,
Design & Technology (7059)

Normal Academic

Art (6125) ,
Food & Nutrition (6072) ,
Design & Technology (7055)

Mr. Wong, HOD Craft & Technology

Craft & Technology Subjects

Art	Design & Technology	Food & Nutrition
Nature/Scope: Honing youths' artistic skills with critical thinking and process skills to allow them to conceptualise and communicate ideas.	**Nature/Scope:** Harnessing youths' innate curiosity and ability to create design-and-make activities.	**Nature/Scope:** Empowering youths with knowledge and skills in nutrition to make discerning and healthy food choices, and food science to experiment and design high quality dishes.
▪ Problem identification/ creative solving in visual and tactile forms ▪ Competency in art elements, design principles, materials and processes ▪ Inquiring mind and spirit of experimentation ▪ Empathy & Safety consciousness	▪ Project management ▪ Problem identification/solving ▪ Research & information analysis ▪ Innovation & experimentation ▪ Communication through sketching ▪ Decision making ▪ Empathy and safety consciousness	▪ Project management ▪ Awareness of Nutrition & Food Science concepts ▪ Inquiring mind, research analysis and information synthesis ▪ Experimentation of food science concepts ▪ Decision making and choice evaluation ▪ Empathy & Safety consciousness

Craft & Technology Subjects

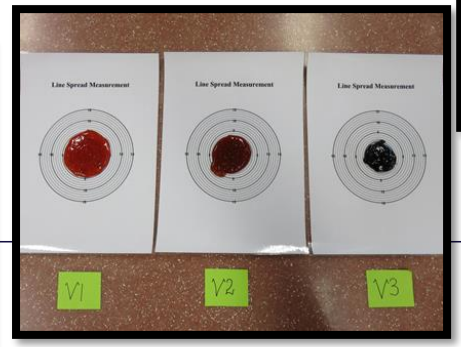
Art	Design & Technology	Food & Nutrition
Aptitude: ▪ keen observational skill ▪ enjoys drawing and making things ▪ likes to solve problems	**Aptitude:** ▪ enjoys sketching, fixing and dismantling things ▪ curious about how things work ▪ enjoys handling wood, metal, plastics materials ▪ Physics students (mechanisms, electronics, structures)	**Aptitude:** ▪ flair for culinary skills ▪ keen sense of experimentation in food science and depth of thinking ▪ Biology students (food preservation, food reactions, food safety, digestion, diet-related diseases, food commodities)
P1 : Coursework 60 % (I. Preparatory studies, II. Artwork) P2 : Drawing & Painting 40 % (Display of personal and creative expressions through drawing and painting)	P1 : Written Paper 40 % P2 : Coursework 60 % (I. Design journal, II. Making - prototype of product, III. Presentation boards)	P1: Written Paper 40 % P2: Coursework 60 % (I. Investigation folio, typed written in prose, II. Practical examination, III. Food Science experiment*) * Only for Express stream
Prospects: Soft skills in Art, Design and Aesthetics are in demand as Singapore moves towards a service-based industry.	**Prospects:** The Design Thinking skills acquired prepares the child for the constantly changing world in the 21st century	**Prospects:** The critical thinking within the areas of nutrition and food science, and in culinary skills prepare students for the food, and health and wellness industries in the 21st century.

ART

YISHUN SECONDARY SCHOOL

We Seek We Strive We Soar

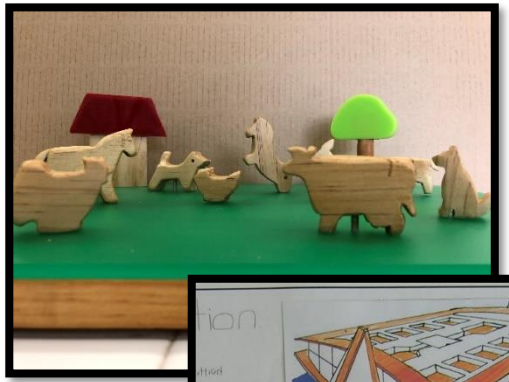
F&N

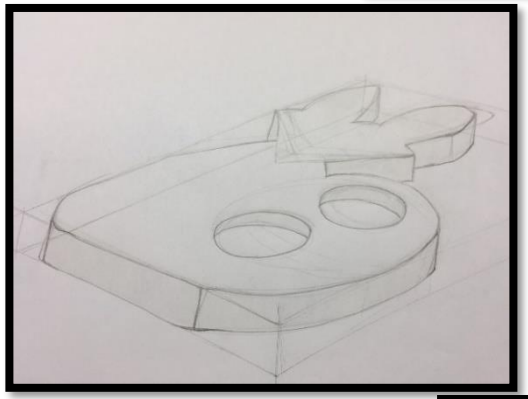


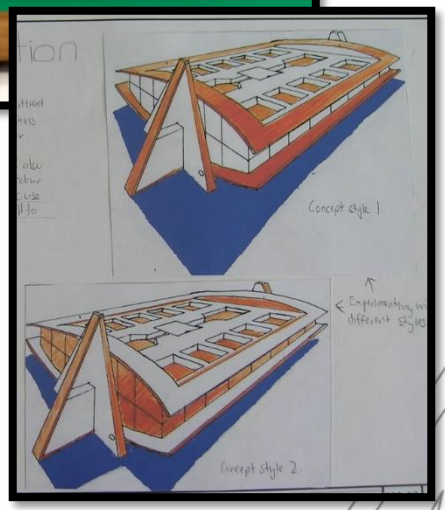
YISHUN SECONDARY SCHOOL

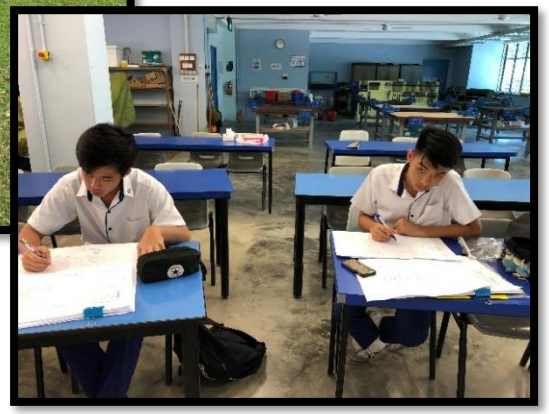
We Seek We Strive We Soar

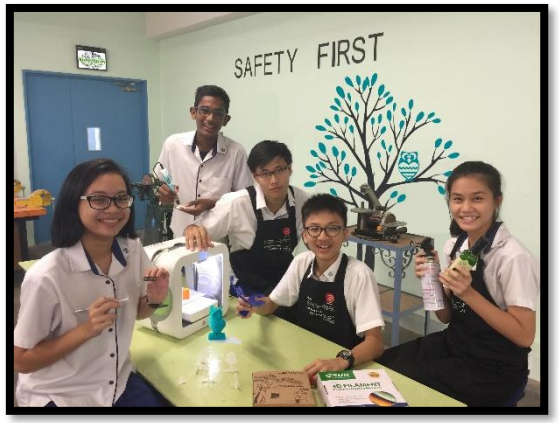
D&T











YISHUN SECONDARY SCHOOL

We Seek We Strive We Soar

Closing Address

Mr Tay, Vice-Principal Yishun Secondary School

Focus on the Child

Beyond the mere marks/grades, focus on
Academic progression:

- <u>WHERE he/she stands, vis-à-vis:</u>
  - level and/or
  - promotion criteria

- <u>WHAT should he/she be aiming for</u>
  - Sec 2: specific subj pre-requisite
  - Sec 4: admission criteria to JC/poly/ITE etc

- <u>HOW to move on from here (how to improve?)</u>
  - Learning attitude in class/school
  - Home study habits

Non-academic:

- Feedback on CCA, VIA, CCE
- Attendance, health, behaviour, personality, values (→ the WHOLE child)

Slides and handouts can be found on the school website under the ‘Parents’ tab.

Thank you

We will now commence with the Parents Teachers Conference for parents whom had made the booking