

Secondary 2

Meet-the-Parents (MTP)

& Subject option Exercise (SOE) Talk

6.00pm to 7.50pm 12 May 2023



Programme Flow

Welcome by Principal, Ms Yeo Siok Ee Sharing by S2 Assistant Year Head, Ms Norliyana

Understanding the Post-Secondary Landscape- ECG Counsellor, Mr Russel Cheong

Overview of Subject Option Exercise (SOE)- SH/Science, Mr Traven Loh Wei Chuen

Literature in English - HOD/ English, Mrs Farhain Aidil

Science – SH/Science, Mr Traven Loh Wei Chuen

Humanities – SH/Humanities (covering), Mdm Lee Hui Cheng

Additional Mathematics – HOD/Mathematics, Mr Ooi Wei Yong

Secondary 2 Express Course

Pure Sciences

SH/Science, Mr Traven Loh Wei Chuen

Core Geography/ History

SH/ Humanities (covering), Mdm Lee Hui Cheng

Computing

HOD/ Mathematics, Mr Ooi Wei Yong

Literature in Chinese (optional)

HOD/Mother Tongue, Ms Ng Ching Ing

Secondary 2 Normal Course

Design & Technology, Nutrition & Food Science, Elements of Business Studies HOD/Applied Studies, Mrs Juliana Ng

Principles of Account

HOD/ Humanities, Ms Anna Cai

Mobile Robotics

SH/Science, Mr Traven Loh Wei Chuen



Sharing by Principal Ms Yeo Siok Ee





VISION

Champions of Mind, Leaders with Heart

JSS students possess mental grit, are cognitively flexible and confident, and persevere in the face of adversity.

JSS students are concerned citizens who take initiative and show genuine interest to actively contribute to the community, possessing the moral courage to be an advocate for society.





MISSION

A close-knit school, in partnership with the community, nurturing students to be resilient in their pursuit of excellence.

We are a collegial school that leverages our close partnerships with the community to maximise the learning opportunities for our students.

Together, we endeavour to support our students in their pursuit of excellence in all that they do. We provide an environment where they are courageous, curious and engaged in learning, and espouse our school values of Loyalty, Industry, Sincerity and Love.



JURONG SECONDARY SCHOOLLOYALTY • INDUSTRY • SINCERITY • LOVE



A flexible thinker is one who is curious, open-minded, empathetic, and able to appreciate diverse views.

A confident person has moral courage, is adaptable to change, communicates effectively, and pursues excellence.

A persevering learner explores different ways to solve problems, and displays mental grit despite facing challenges.

A concerned citizen cares for others, understands what matters to the society and Singapore through engaging in contemporary issues, and believes in Singapore.



Our School





Values





Every Child a Success Story



- ☐ JSS Extra Mile Award 2022
- ☐ SAC Outstanding Normal Course Award
- ☐ JSS Alumni Award for Humanities
- ☐ SAC Award Best in Subject Geography & History

"Rayyan is a determined student who actively works in his academic and personal goals. Being a **persevering learner**, he sets clear goals for himself and works hard to achieve them.

Rayyan puts in his best effort in all that he does when he is in his CCA.

As a trumpet player, he practiced hard during his journey, working towards Singapore Youth Festival (SYF) competition. Rayyan is **respectful** towards his teachers. He is well-liked by his peers and always ready to lend a helping hand to others."

- Mdm Lee Hui Cheng & Mdm Soo Lee Fong

MUHAMMAD RAYYAN
BIN JEFRI Class 2-7



- ☐ JSS Extra Mile Award 2022
- JSS SAC-Alumni Character Excellence Award
- ☐ SAC Award Best in Subject Science

"Yan Rong is an exceptional student who displays a strong work ethic and a dedication to achieving his personal best. He exhibits remarkable perseverance in many aspects of his school life, including his pursuits as a Cross Country student athlete. Yan Rong's mental fortitude and grit are truly inspiring, and his commitment to pushing himself beyond his limits is a testament to his character. He constantly strives for excellence and consistently delivers high-quality work that reflects his determination as a true Champion of Mind."

Ms Clarice Teoh & Ms Angela Ong

Leng Yan Rong

Class 2-3



- ☐ JSS Extra Mile Award 2023
- ☐ SAC Award Best in Subject Visual Art
- ☐ JSS Alumni Award for Humanities
- JSS Alumni Award for STEM

"Dheekshita is an **industrious** student, always giving her best in both academics and CCA, working towards her dreams. Beneath her gentle personality lies a strong-willed heart. No matter what obstacles come her way, she will face them with determination, courage and mental grit. In addition, she has a **loving** and **compassionate** heart, always ready to contribute and help in any way she can. She volunteered to do up a Chinese New Year painting for the class and rallied some of her friends to help out. In addition, she also planned and collated everyone's well-wishes for someone in class who was unwell."

- Ms Roxanne Choy & Mr Riduwan Ahmad

SRINIVASAN DHEEKSHITA

Class 2-8



4/5 Year Secondary Programme					
Sec 1	Sec 2	Sec 3	Sec 4	Sec 5	
Transiting to		GCE 'N'/ 'O'		GCE 'O'	
Sec School	Options	Level Exam		Level	
	for Sec 3	Journey		Exam	

Milestone



Strengths

Aspirations

Manageability

Eligibility

What are my child's strengths/interests?

What does my child want to pursue after secondary school?

What is the total load my child can cope with?

Does my child meet the eligibility criteria to offer the subject at upper secondary level?



Walking through 4 Key Guiding Questions to help my child/ward make his/ her decision



Himself/ Herself.

- "I look at my results."
- "I consider what I like."

Don't know.

"I am wondering what do I enjoy and what do I want to do in future."

How do students make education and career choices?

Parents.

"They know me best.
Their opinions matter a lot."

Friends.

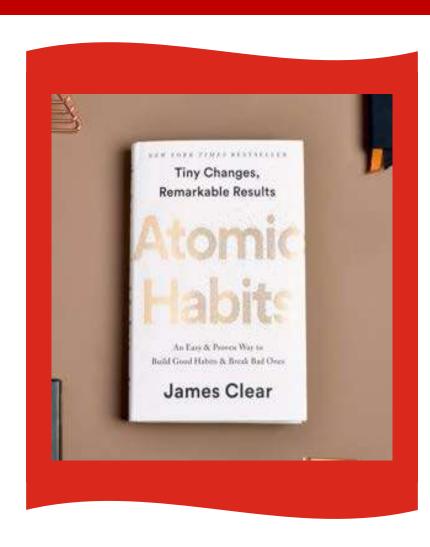
"I want to be in the same class or course as them."

Teachers.

"They support and inspire me."



- ☐ Joy and purpose of learning, inside and outside the classroom
- □ Exploring aspirations & possibilities
- ☐ Encouraging the development of a system of habits
 - Timely help seeking
 - Readiness for & receptiveness to feedback
 - Self-management: physical and socio-emotional well-being
 - Reasonable usage of mobile devices
 - Attendance & punctuality





Assistant Year Head, Ms Norliyana Matin





Sec 2 Level Outcome - A Courageous Contributor

An effective team player who is able to contribute towards a common goal and be <u>respectful</u> towards the feelings and perspective of others.



Performance of school values

Learning to work with others

Career Preparation

Building selfconfidence in learning





T1 W1 Programme

Through the **Clash of the Titans**, our S2 students...

Learn to cooperate with one another

Learn to leverage one another's strengths

Build a keen sense of camaraderie

Bond through a shared endeavour

Developing teamwork and moral courage

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Official (Closed) \ Non-Sensitive

Assessment Structure and Weighting

The academic performance of a student is assessed regularly to gauge progress in learning as well as to provide timely feedback:

- a) Weighted Assessments (W.A)
- E.g. Alternative assessments, Class quizzes, Project work, Practical tests and daily assignments
- b) Semestral Assessment (S.A)
- E.g. End-year Exam [end-Sept to early Oct]

TERM 1	TERM 2	TERM 3	TERM 4
10%	15%	15%	60%
W.A	W.A	W.A	S.A

Distribution of weighting of assessments for Sec 2



Promotion Criteria 2E

Criteria	Status	
Met minimum criteria Pass EL <u>and</u> Overall	Promoted to Sec 3 Exp	
Did not meet minimum criteria ■ Failed EL <u>or</u> Overall	Transferred to Sec 3 N(A)	



Promotion Criteria 2NA

Criteria	Status
Performed exceptionally wellAt least 70% or higher in average for all subjects	Transferred to Sec 3 Exp
 Met minimum criteria Pass EL <u>and</u> 2 other subjects Pass in <u>any 4</u> subjects 	Promoted to Sec 3 N(A)
Did not meet minimum criteria	Advanced to 3 N(A) Retained in Sec 2 N(A) Transferred to Sec 3 N(T)



Promotion Criteria 2NT

Criteria	Status	
Performed exceptionally well At least 70% or higher in average for all subjects	Transferred to Sec 2 N(A)	
 Met minimum criteria Pass EL or Mathematics, and Pass in any 1 subject 	Promoted to Sec 3 N(T)	
Did not meet minimum criteria	Advanced to 3 N(T) Retained in Sec 2 N(T)	





THANK YOU

email: norliyana_matin@moe.edu.sg



Understanding the Post-Secondary Landscape Mr Russell Cheong ECG Counsellor





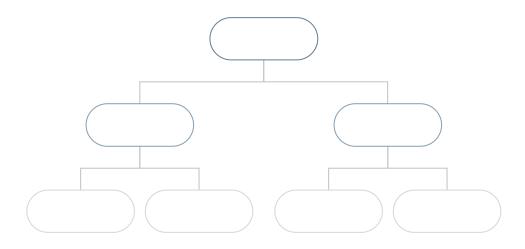
Today's Sharing

- 1. What is ECG?
- 2. Making Informed Decisions
- 3. Post-Secondary Education Landscape & Pathways
- 4. Supporting Your Child's Aspirations





What is ECG?





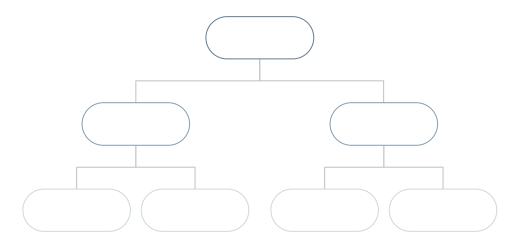


What is ECG (Education & Career Guidance)?

- 1. Equip your child with knowledge, skills and values to make informed decisions
- 2. Help your child to successfully transit from secondary school to further education or work
- 3. Prepare your child to manage his/her career pathways and lifelong learning



Making Informed Decisions







THE 3 KEY ECG QUESTIONS

WHO AM I?

Discovering Purpose

What are your Values, Interests, Personality & Strengths (VIPS)





Exploring Opportunities

What are the post-secondary options?

HOW DO I GET THERE?

Staying Relevant

What are your plans to reach your goals?





MYSKILLSFUTURE





MYSKILLSFUTURE

Know Yourself

- Self Assessment Tools
- Search Job Roles by RIASEC Code

World of Work

- Industry Landscapes
- Learn About Job Roles

Education Guide

- Explore Education Institutions, Courses
- Calendar of Events



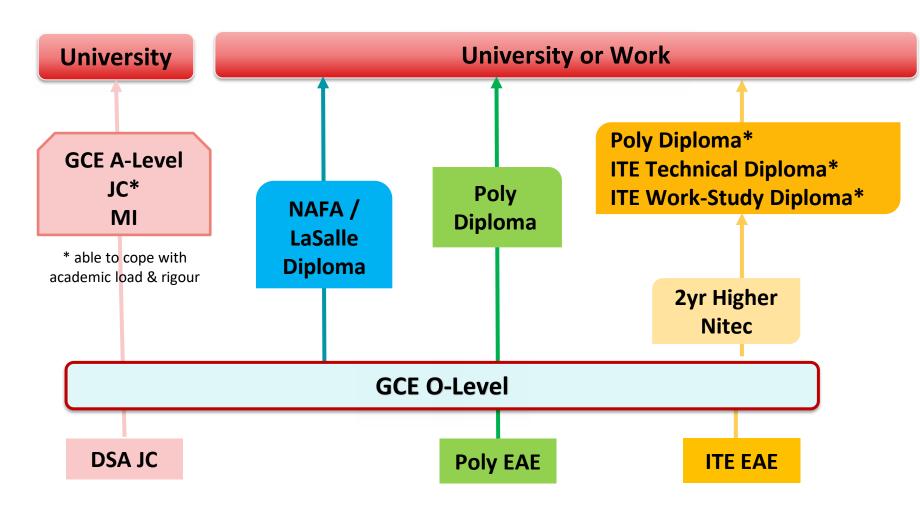




Post-Secondary Education Landscape & Pathways



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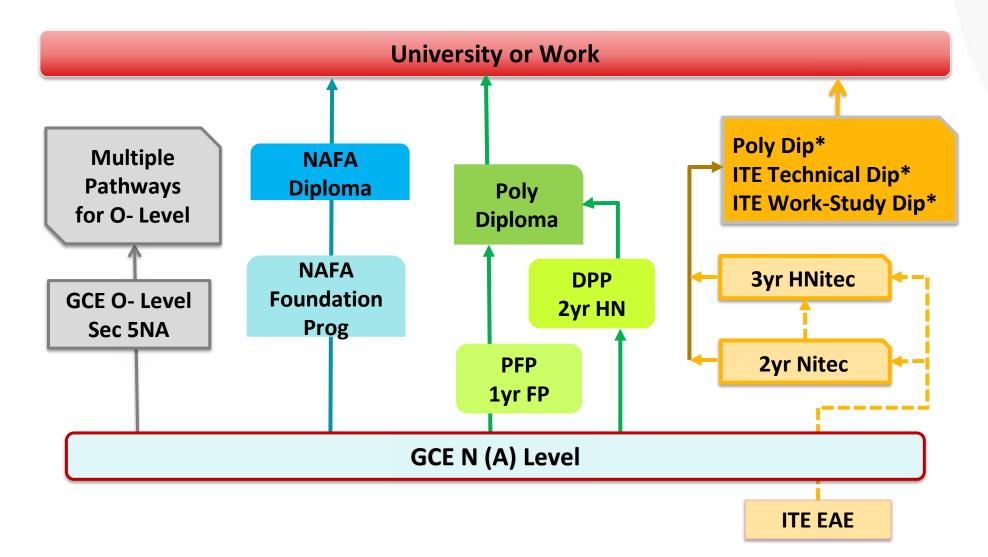
ITE Technical Diploma 2yr 6 courses → SIT, SUSS

- 1. Culinary Arts
- 2. Machine Technology
- 3. Automotive Engineering
- 4. Civil & Structural Engineering
- Beauty & Wellness Management
 2.5yr
- 6. Hospitality & Hotel Management 2.5yr

ITE Work-Study Diploma 2.5yr 36 courses → NTU, SIT, SUSS



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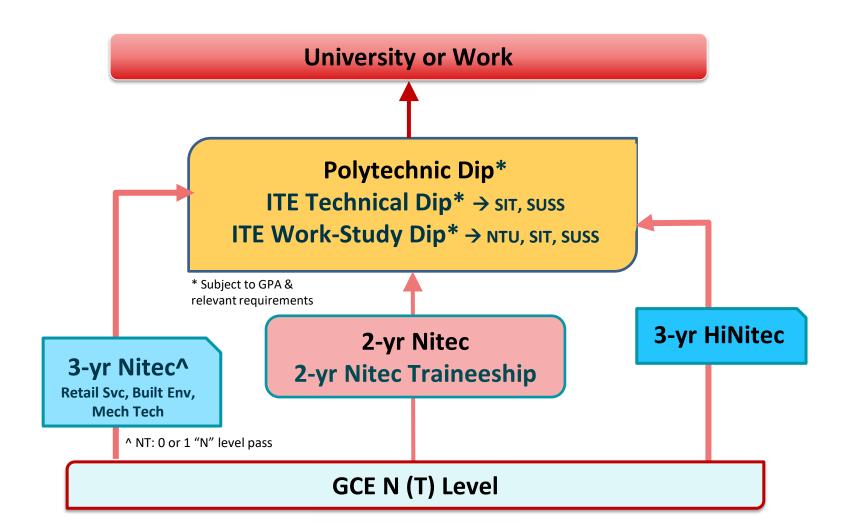
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- 1. Culinary Arts
- 2. Machine Technology
- 3. Automotive Engineering
- 4. Civil & Structural Engineering
- 5. Beauty & Wellness Management 2.5vr
- 6. Hospitality & Hotel Management 2.5yr

ITE Work-Study Diploma 2.5yr 36 courses → NTU, SIT, SUSS



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ITE Technical Diploma 2yr 6 courses → SIT, SUSS

- 1. Culinary Arts
- 2. Machine Technology
- 3. Automotive Engineering
- 4. Civil & Structural Engineering
- Beauty & Wellness Management
 2.5yr
- 6. Hospitality & Hotel Management 2.5yr

ITE Work-Study Diploma 2.5yr 36 courses → NTU, SIT, SUSS





GCE A-Level: JC & MI

Junior College (JC)

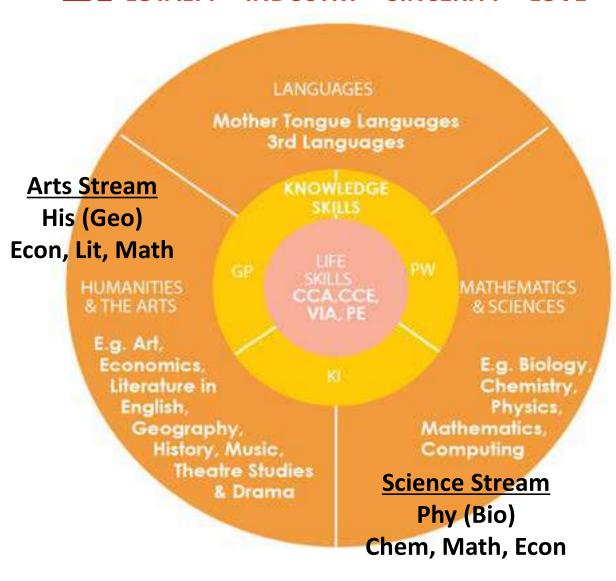
- two-year course that prepares students for the GCE A-Level
- designed for students who are able to cope with academic load & rigour

Millennia Institute (MI)

- three-year course that prepares students for the GCE A-Level
- designed for students who prefer a less intensive learning pace

Students (JC & MI) who obtained good results are eligible to apply for admission to local and overseas universities

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GCE A-Level: JC & MI

Subject Combination (7)

3 H2 Content-based Subjects 1 H1/H2 Contrasting Subject

3 Compulsory Subjects

(Mother Tongue Language + Project Work (P/F) + General Paper)

Please check respective school's website for subject combination details.





Polytechnics



- Provide hands-on, practice-based learning experience
- Equip students with industry-relevant skills and competencies that will prepare them well for the workforce
- Work attachments with industry partners (ranging from 6 weeks to 6 months)











A. Applied Sciences



B. Built Environment



C. Business & Mgt



D. Engineering



E. Health Sciences

choose to further their studies

Polytechnics

polytechnics



Courses are broadly grouped into 9 Course Clusters

with a total of 198 courses spread across five

Polytechnic graduates can qualify for university

admission based on their diploma results if they



F/G. Humanities



H. Information

& Digital **Technologies**



J. Media & Design



I. Maritime Studies





Institute of Technical Education (ITE)

- Offer technical education to students who excel in practical learning, with a variety of courses in engineering, business, design, hospitality, and healthcare.
- Prepare students with both theoretical knowledge and practical skills for their desired career paths
- Can qualify for polytechnics admission based on their NITEC results if they choose to further their studies



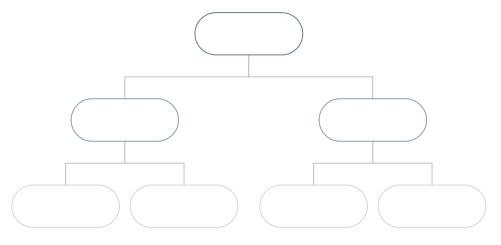








Supporting Your Child's Aspirations







Supporting Your Child's Aspirations



Have regular and genuine conversation with your child

Familiarize yourself with your child's personality and learning style

Provide opportunities for your child to grow

Show love and support which helps your child grow in confidence



Supporting Your Child's Aspirations

Parent's ECG Guidebook

Contains tips and advice on ECG and how parents can support their children throughout their key education stages.

go.gov.sg/ecg-parent-guide





An Education & Career Guidance Handbook for Parents



ECG Resources

ECG Resources	URL	QR Code
What's Next (After 'N' / 'O' / 'A' Level)	go.gov.sg/whats-next	
Overview of Post-Secondary Education Institutions (PSEIs)	go.gov.sg/overview-pseis	
The Next Step Forward (e-book)	go.gov.sg/next-step-forward	
MySkillsFuture for Secondary School	go.gov.sg/mysfsec	





Come Chat with Mr Russell on your ECG needs

Please feel free to contact me if you have any ECG questions.

Scan QR Code to make appointment:

go.gov.sg/ecg-russell
email: cheong_kum_seng@schools.gov.sg





https://go.gov.sg/ecg-russell





THANK YOU

email: cheong_kum_seng@schools.gov.sg





Overview of Subject Option Exercise 2024 Subject Combinations



Mr Traven Loh Wei Chuen Subject Head/Science



Agenda

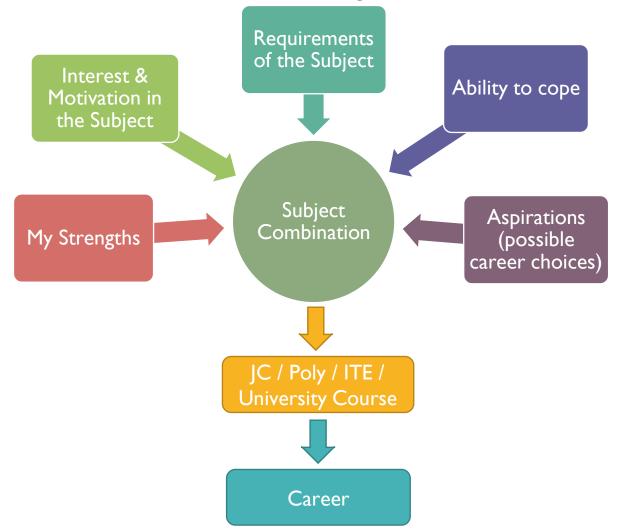
- 1. Requirements for JC / MI / Polytechnic / ITE
- 2. Subject Combinations
- 3. Subject Allocation Criteria
- 4. Subject Options Exercise (SOE) Timeline



1. Requirements for JC / MI / Polytechnic / ITE



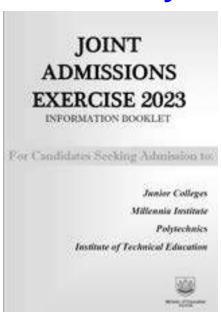
Considerations for Subject Combination





Requirements for JC / MI / Polytechnic / ITE

JC / Poly



Poly - PFP

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

Poly - DPP

https://www.moe.gov.sg/postsecondary/admissions/dpp ITE



Admission Booklet

For Full-Time and Traineeship Courses



https://www.ite.edu.sg/docs/default-source/admissions-docs/full-time/publications/admission-booklet/gce-n-admission-booklet-2023.pdf

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



Requirements for admission

JC (2-year Course)

• L1R5 Aggregate Score ≤ 20 Points

i.e. English Language / Higher Mother Tongue and5 relevant subjects(see later slides for details on how relevant subjects are determined)

MI (Millennia Institute) (3-year Course)

• L1R4 Aggregate Score ≤ 20 Points

i.e. English Language / HMT and 4 relevant subjects

Note: CCA cannot be used to meet the minimum entry requirements



Requirements for admission

Polytechnic (3-year Course)

- ELR2B2 ≤ 26 Points
- Subject requirements differ for each course
- Almost all courses require English Language (EL),
 Mathematics and 3 relevant / best subjects

ITE

- Based on 4 subjects
- Subject requirements differ for each course



Calculation of L1R5 Aggregate Score (JC)

	No.	L1R5	Subject Category
First Language	1	L1	EL / *HMT
	2	R1	Humanities
	3	R2	Math / Sci
Relevant Subjects	4	R3	Humanities / Math / Sci
Justices	5 R4 Any subject		
	6	R5	Any subject

^{*}For students who take HMT, they need to pass both EL and HMT should they need to use HMT to replace the EL grade. Grades for both Higher Mother Tongue Language (viz. Higher Chinese, Higher Malay and Higher Tamil) and Mother Tongue Language (viz. Chinese, Malay and Tamil) cannot be used in the same aggregate computation.



Calculation of ELR2B2 Score (Poly)

No.	L1R2B2	Subject Category
1	EL	English Language
2	R2	1st Group of Relevant Subjects Humanities / Mathematics / Additional Mathematics
3	R2	2nd Group of Relevant Subjects Humanities / Mathematics / Sci
4 & 5	B2	Best 2 other subjects



Calculation of ELMAB3 Score (Poly – PFP, DPP)

No.	ELMAB3	Subject Category
1	EL	English Language
2	MA	Mathematics / Additional Mathematics
3 to 5	B3	Best 3 other subjects



Calculation of Aggregate Score (ITE)

No.	Best 4	Subject Category
1 to 4	Best 4	Course dependent Usually either English Language / Mathematics / Science is a compulsory subject



2. Subject Combinations



2024 Sec 3 Subjects Offered

Languages

- English
- Mother Tongue
- Higher Mother Tongue

Mathematics

- Mathematics
- Additional Mathematics

Humanities

- Social Studies (SS) with either:
- Elective Geography (E Geo)
- Elective History (E Hist)
- Elective Literature in English (E Lit in EL)
- Core Geography (Geo)
- Core History (Hist)
- Literature in Chinese (Lit in CL)

Sciences

- Chemistry (Chem)
- Biology (Bio)
- Physics (Phy)
- Science (Chemistry / Biology)
- Science (Physics / Chemistry)
- Science Syllabus T

Applied Studies

- Design & Technology (D&T)
- Nutrition & Food Sciences (NFS)
- Computer Applications (CPA)
- Elements of Business Studies (EBS)
- Mobile Robotics (MR)

Others

- Computing (Comp)
- Principles of Accounts (POA)



2024 Sec 3 Subject Combinations

Express

• 8 subjects

Pure Sciences

- For students who enjoy deep disciplinary learning and rigorous interdisciplinary learning
- Aspiring JC students

Express

• 7 subjects

Pure Sciences

 For students who are passionate about deep disciplinary learning in Sciences/Math, keen on strengthening learning in Humanities

Combined Science

 For students who are passionate about deep disciplinary learning in Humanities, keen on strengthening learning in Sciences/Math

N(A)

- 6 subjects
- 7 subjects (with Add Math)

N(T)

• 6 subjects



2024 3EX Subject Combinations (Pure Sciences)

No.	8 subjects							7 subj	ects	
1			English I	_anguage)		English Language			
2		Мо	ther Tong	gue Lang	uage		Mothe	er Tongı	ıe Lan	guage
3			Mathe	ematics				Mather	natics	
4	Additional Mathematics						Additional Mathematics			
5			Cher	nistry			Chemistry			
6	S	S /	SS	s/ ss/			SS/	SS	/	SS/
	E	Geo	ΕH	list	E Lit	in EL	E Geo E Hi		ist	E Lit in EL
7	Physics			Biology		Physics			Biology	
8	Geo	Hist	Lit in CL	Comp	Bio	Phy	NIL			

Legend: Orange = compulsory subjects; Green = subjects which have choices



2024 3EX Subject Combinations (Combined Science)

No.	7 subjects					(\	with	7 sub	jects dd Ma	iths	s)	
1			English	Langu	ıage				English	n Lang		
2		Motl	her Tor	ngue La	anguage		N	1oth	er Tong	ue Lang	uag	ge
3			Math	nemati	CS		Mathematics					
4		A	Add Ma	athema	atics		POA					
5		Sci Sci em / Bio) (Phy / Chem)				em)	S (Chem		o)	(Ph	So sy/	ci Chem)
6	SS / E Ge			S / Hist		S / t in EL	SS / E Geo		SS / E Hist		SS / E Lit in EL	
7	Geo	His	st L	it in CL	Comp	POA	Geo	Hist		Lit in (CL	Comp



2024 3NA Subject Combinations

No.		6 sub	jects			7 sub	jects		
1	E	inglish L	anguag	ge	English Language				
2	Moth	er Tong	ue Lan	guage	Mother	Tong	ue Langu	ıage	
3		Mathe	matics		Mathematics				
4	Science (Chem / B		Science (Phy / Chem)		Science (Chem / Bio)	Science (Phy / Chem)		
5	SS / E Geo	SS / E Hist		SS / E Lit in EL	SS / E Geo		SS / Hist	SS / E Lit in EL	
6	POA	NFS		D&T	POA	NFS		D&T	
7		N	IL			*Add I	Math		

^{*}offered to students who meet the criteria



2024 3NT Subject Combinations

No.	6 subjects						
1		English l	_angu	ıage			
2	M	other Tong	gue L	anguage			
3		Mathematics					
4	(Computer Applications					
5	Science	*Science (Chem / I		*Science (Phy / Chem)			
6		ents of Studies	M	obile Robotics			

^{*}offered to students who meet the criteria for taking up Subject-based Banding



3. Subjects Allocation Criteria



2024 Sec 3 Subjects Requirements

The following subjects require a strong foundation in Secondary 2:

Subject Requirements
Design & Technology (D&T)
Food & Consumer Education (FCE)
Geography (EX)
History (EX)
English Literature & English Language (EX / NA)
Chinese Language (EX)
Math (EX) and English Language (EX)
Science (EX)
A1 in Science (EX) and top 25% of cohort



2024 Sec 3 Subjects Requirements

Your child's / ward's subject combination will depend on the following:

- marks of the required subject(s)
- overall academic performance
- attitude during lessons and aptitude for the subject via feedback from subject teacher(s)
- class sizes and timetabling constraints
- availability of teachers and venues



4. Subjects Options Exercise (SOE) Timeline



Timeline for the Subject Options Exercise (SOE)

Date	Activity
27 Oct (Fri) 8am	Parent-Teacher Conference SOE Opens (fill in the online All Ears Form)
30 Oct (Mon) 9am	SOE Closes (All Ears Form will be locked)
8 Nov (Wed) After 9am	Results of the SOE will be released on the online All Ears Platform (scan the QR code in the October PN)
10 Nov (Fri) By 12pm	 Queries about your child's / ward's Subject combination Pls email to Mr Traven Loh at <u>jurong ss@moe.edu.sg</u>
Late Nov	 Form Class Allocation Do note that your child's / ward's sec 3 class allocation may change even though it has appeared in your Parent Gateway in late November. Do check the updated class just before school re-opens.





THANK YOU

Email: loh_wei_chuen@moe.edu.sg



LITERATURE IN ENGLISH

GCE 'O' (2274) GCE 'N' (2177)



Mrs Farhain Aidil
Head of Department/ENGLISH



DESIRED STUDENT OUTCOMES

A student who has completed this course in Literature:

- will be able to critically and independently read, analyse and appreciate literary texts;
- will be able to develop and effectively communicate personal and critical responses to literary texts and others' views; and
- have read and appreciated literary texts from different parts of the world, including works from the three main literary genres.



Plot

Elements of Plot Conflict

Relationship between Scenes and Text

Plot and Subplots

Narrative Structure

Plot Devices

Character

Roles and Purposes of Character

Characterisation

Character Traits

Character Development

Relationships

Setting and Atmosphere

Time

Place

Physical Details

Situations

Mood

Style

Diction

Figurative Language

Sound

Point of View

Irony

Tone

Form

Theme

Central Ideas
Main Concerns

AREAS OF STUDY IN LITERATURE



BY SECONDARY 2

OS PROSE

- SHORT STORIES
- NOVEL



<u>UPPER SECONDARY</u>

PROSE AND
UNSEEN POETRY
(50%)

S POETRY

- SEEN/ UNSEEN

OS DRAMA



FORMAT OF EXAM For Elective Literature Paper 2: Prose and **Unseen Poetry** (1hr 40min)



PAPER 2- PROSE AND UNSEEN POETRY (50%)

Section A: Prose [25%]

- For each of the six set texts in this section, one passagebased question and two essay questions will be set.
- Candidates will answer one question [25%] based on one of the six set texts.
- For every year of examination, one or two Singapore texts will be set.



PAPER 2- PROSE AND UNSEEN POETRY (50%)

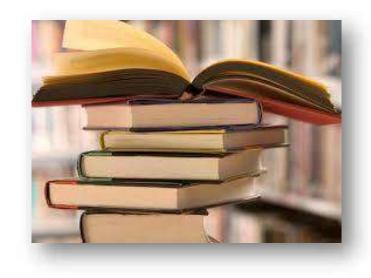
Section B: <u>Unseen Poetry</u> [25%]

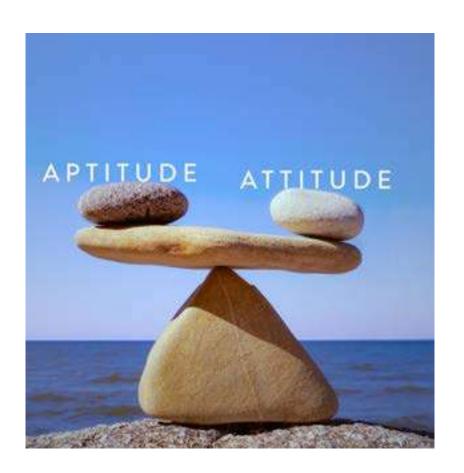
- -There are no set texts in this section.
- -There will be a choice of two unseen poems with two-part questions set on each poem.
- -Candidates will answer one of the two poems [25%].
- -For every year of examination, one question will be set on a Singapore text.



What do students need to do well in Literature?

- APTITUDE
- ATTITUDE







A student should opt for Literature if he/she has...

- Strong oral and written skills to make a clear argument and share your opinions
- The ability to analyse and critically examine diverse forms of text
- The capacity for independent thought, reflection and judgement
- The ability to comprehend and develop intricate ideas and weigh the importance of alternative perspectives
- An appreciation of language nuances and ambiguities of metaphorical language





THANK YOU

Email: Farhain_ahmad_bustami@moe.edu.sg

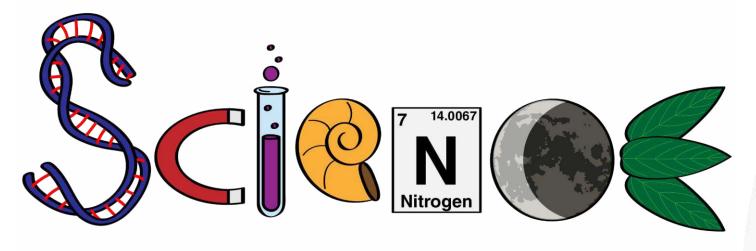


SCIENCE



Mr Traven Loh Wei Chuen Subject Head/Science





is all around us

Understanding the demands of Upper Secondary Science



Importance of Science

How will low-lying Singapore's built environment survive rising seas?

Singapore's response to climate change is more adaptation than prevention. So how will the vulnerable city-state protect its most valuable assets—its buildings—from rising sea levels?





Trump's COVID-19 disinfectant ideas horrify health experts





Goals of Science Education

 Enthuse and nurture all students to be scientifically literate

 Provide strong fundamentals for students to pursue science related areas in learning and work





The Science Syllabuses

less emphasis on factual materials...

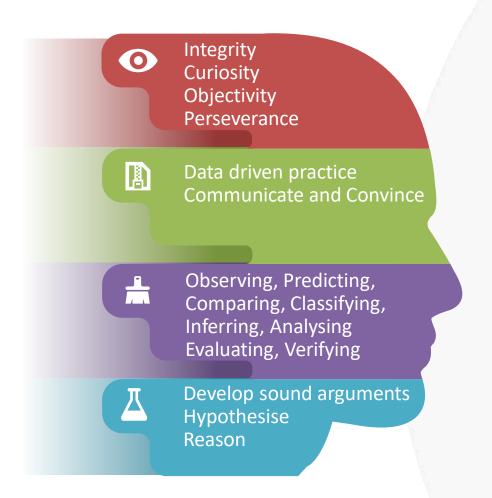
...much greater emphasis on the understanding and application of scientific concepts and principles

builds on the foundations of Lower Secondary science

the need to develop skills that will be of long-term value



Skills, Values & Attitudes in Science





Differences between the Sciences



The study of the composition, structure, properties and change of matter... known as the 'central science' that bridges physics and biology





The study of life and living organisms... including their physical structure, function, growth and evolution



The study of matter & its motion through space & time... the concepts of energy & forces... how the universe behaves...



Topics covered in Lower Secondary Science

Chemistry



- Physical Properties
- Chemical Composition
- Separation Techniques
- Particulate Nature of Matter
- Atoms and Molecules
- Chemical changes

Biology



- Cells
- Ecosystems
- Human Digestive System
- Transport Systems in Living Things
- Human Sexual Reproduction System

Physics



- Light
- Forces, Pressure, Moments, Energy
- Transfer of Heat Energy
- Electrical Systems



Dispositions for the Sciences

Biology

- Strong language ability (at most 15% calculation questions)
- Ability to apply concepts of living organisms to address the broader question of how living organisms work to sustain life
- Shows interest in the human body and the natural world
- A flair for drawing diagrams of plants or animals

Physics

- Strong mathematical foundation (20 to 40% calculation questions)
- Able to think abstractly and apply laws and theories
- Shows interest in the interactions of the physical world







COURSE	EXPRESS	NORMAL (ACADEMIC)	NORMAL (TECHNICAL)
SUBJECTS OFFERED	Chemistry (O-Level) Biology (O) Physics (O) Science (Phy/ Chem) (O) Science (Chem/ Bio) (O)	Science (Phy/ Chem) (NA) Science (Chem/ Bio) (NA) *Science (Phy/ Chem) (O) *Science (Chem/ Bio) (O)	*Science (Phy/ Chem) (NA) *Science (Chem/ Bio) (NA)
ASSESSMENT FORMAT	 Multiple Choice Structured Practical 	 Multiple Choice Structured 	 Multiple Choice Structured

^{*}offered to students who meet the criteria for taking up Subject-based Banding



O-Level Pure Sciences – Scheme of Assessment

Paper	Pure Sciences	Duration	Marks	Weighting
1	Multiple Choice	1h	40	30%
2	Structured & Free Response	1h 45m	80	50%
3	Practical Assessment	1h 50m	40	20%



O-Level Combined Science – Scheme of Assessment

Paper	Combined Sciences	Duration	Marks	Weighting
1	Multiple Choice	1h	40	30%
3	Structured & Free Response (Chemistry)	1h 15m	65	32.5%
5	Practical Test	1h 30m	30	15%



N(A)-Level Science – Scheme of Assessment

F	Paper	Combined Sciences	Duration	Marks	Weighting
	1	Multiple Choice (Physics)	1h 15m	20	20%
	2	Structured (Physics)	111 15111	30	30%
	3	Multiple Choice (Chemistry)	1h 15m	20	20%
	4	Structured (Chemistry)	1h 15m	30	30%
	5	Multiple Choice (Biology)	1h 15m	20	20%
	6	Structured (Biology)	1h 15m	30	30%



N(T)-Level Science – Scheme of Assessment

Paper	Science Syllabus T	Duration	Marks	Weighting
1	Multiple Choice	1h	40	40%
2	Short Answer or Structured Questions	1h 15m	60	60%

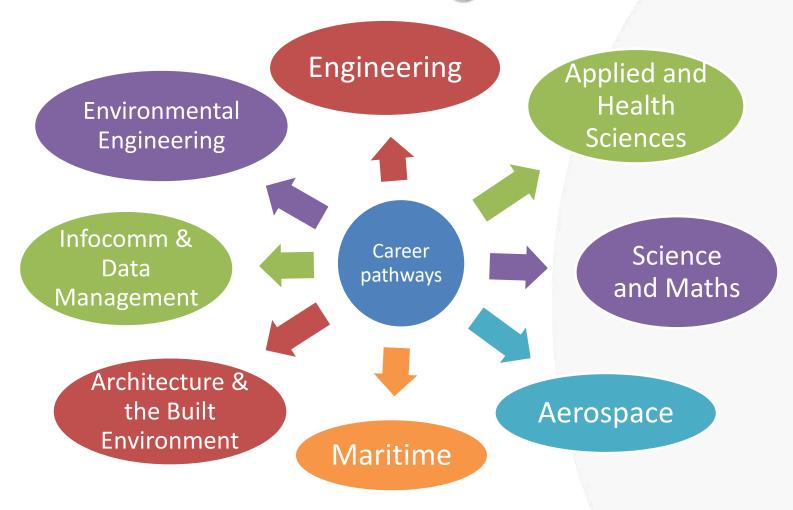


O-Level Science Assessment Weightage

Level	Subject	Code	SEAB website links	
0	Physics	6091	https://www.seab.gov.sg/home/exa	
	Chemistry	6092	minations/gce-o-level/o-level-	
	Biology	6093	syllabuses-examined-for-school-	
	Combined Science	5086 / 5088	<u>candidates-2024</u>	
NA	Combined Science	5105 / 5107	https://www.seab.gov.sg/home/examinations/ gce-n(a)-level/n(a)-level-syllabuses-examined- for-school-candidates-2024	
NT	Science Syllabus T	5148	https://www.seab.gov.sg/home/examinations/ gce-n(t)-level/n(t)-level-syllabuses-examined- for-school-candidates-2024	



Value of Offering Science





Course Requirements (University)

Course	School	Course Requirements
Dentistry	NUS	H2 pass in Chemistry and either Biology or Physics.
Medicine	NUS	H2 pass in Chemistry and either Biology or Physics.
Biomedical Engineering	NUS	H2 pass in Mathematics or Further Mathematics and either Physics or Chemistry
Biological Sciences	NTU	H1 pass in Mathematics and H2 pass in Physics / Chemistry / Biology
Medicine	NTU	H2 pass in Chemistry and Physics / Biology
Bioengineering	NTU	H2 pass in Mathematics and Physics / Chemistry / Biology / Computing
Medicine	Cambridge	Chemistry and Physics / Mathematics / Biology
Dentistry	University of Melbourne	Chemistry or Biology



Course Requirements (Polytechnic)

Course	School	Course Requirements
Biomedical Science	Singapore Polytechnic	Any 1 Science ELR2B2 range: 3-7
Biomedical Science	Ngee Ann Polytechnic	Any 1 Science ELR2B2 range: 4-8
Chemical & Biomolecular Engineering	Ngee Ann Polytechnic	Any 1 Science ELR2B2 range: 4-8
Pharmaceutical Science	Nanyang Polytechnic	Any 1 Science ELR2B2 range: 5-10



Course Requirements (ITE)

Course	Course Requirements
Electronics & Info-comm Technology	Maths or Science
Applied & Health Sciences	
Design & Media	
Engineering	



Key Considerations



Is my child eligible for the subject combination?





THANK YOU

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HUMANITIES



MDM LEE HUI CHENG
SUBJECT HEAD/HUMANITIES (covering)



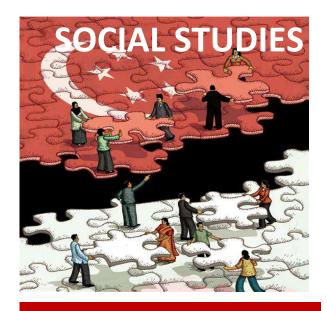
1. Overview of Humanities Subjects

1. Subject Combinations

1. Q&A



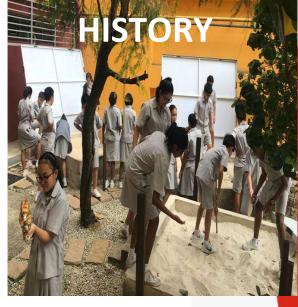
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... emphasises the integrative study of physical and human environments to enable a better understanding of an individual's space and other parts of the world.

... preparing students to be citizens of tomorrow by understanding the interconnectedness of Singapore and the world, and appreciate the complexities of the human experience.





... allows students to draw connections between the past and present by understanding how the nature and impact of past developments explain today's world.



PRINCIPLES OF ACCOUNTING



... provide students with a basic introduction to financial accounting and to develop an appreciation of preparing, communicating and using financial information, and appreciating the need for ethical conduct.

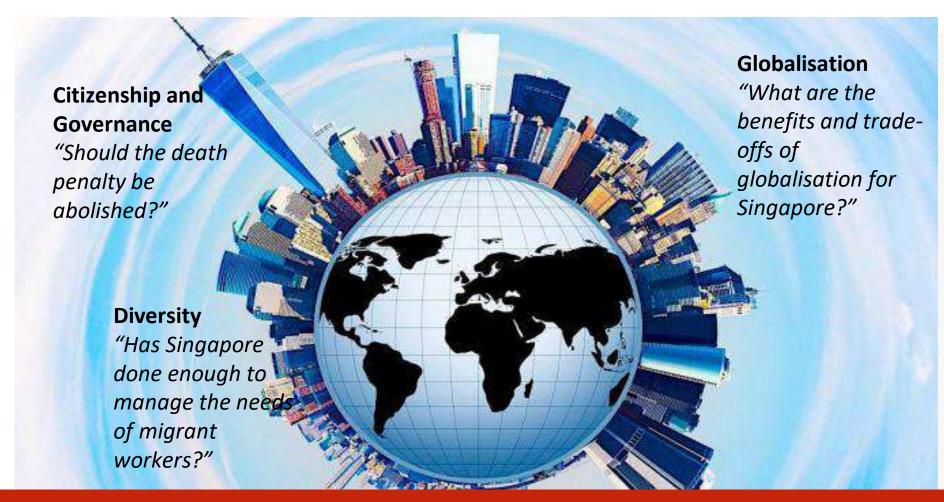
EL LITERATURE

(shared by HOD EL)



... discover the joys of reading Literature and become aware of new ways of perceiving the world. Appreciate the aesthetic value of language and engage personally with a variety of texts and draw connections in order to develop intellectual, emotional, socio-cultural, and global awareness

JURONG SECONDARY SCHOOL LOYALTY • INDUSTRY • SINCERITY • LOVE



SOCIAL STUDIES

(compulsory for all students)



- Geography in everyday life
- Tourism
- **Climate**



Geography (Elective Humanities subject)



Attitude

- **Curious** about the formation of earth and physical environment
- Keen interest in global trends and current affairs about society, economy and politics.
- Inquisitive, self directed and reflective in seeking geographical insights.

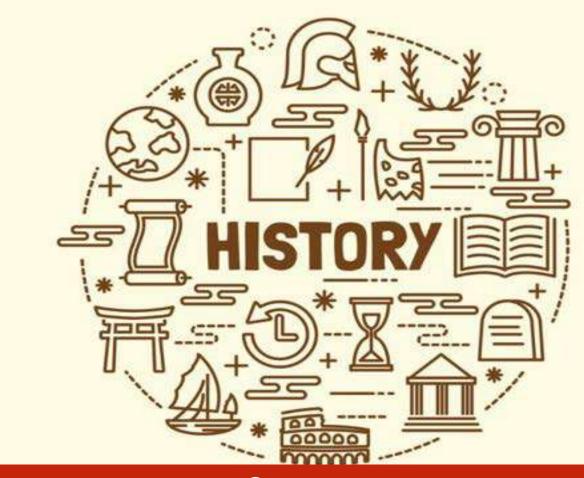
Aptitude

- Able to make clear and reasonable explanations.
- Able to make connections between human-physical relationships at various scales.
- Able to make informed judgement and sound decisions through analysis, synthesis and evaluation of geographical information.

Geography
(Elective Humanities subject)

JURONG SECONDARY SCHOOL LOYALTY • INDUSTRY • SINCERITY • LOVE

- Impact of WWI
- Authoritarian Regimes
- WWII in Europe and Asia
- The Cold War



History

(offered as an Elective Humanities subject)



Attitude

- Empathetic understands the reasons of past developments without imposing judgement on present day norms.
- Balanced –considers and respects different points of viewpoints.
- Enquiring ask questions to uncover and understand the past.
- **Discerning** understand sources beyond face value

Aptitude

- Able to make clear and reasonable explanations and historical interpretation.
- Methodical Employs comprehensive effort when engaged in historical enquiry.
- Knowledgeable and familiar with key forces and personalities that have shaped the world.

History

JURONG SECONDARY SCHOOL LOYALTY • INDUSTRY • SINCERITY • LOVE

- The Roles of Accounting
- The Accounting Information System
- Elements of Financial Statements
- Financial statement analysis
- Business Entities



Principles of Accounts

(offered as a Full Humanities subject)



Attitude

- Being interested in accounting and aware of further pathways in accounting.
- Integrity and Objectivity in business ethics.
- Social responsibility, and how it can affect users of financial information.

Aptitude

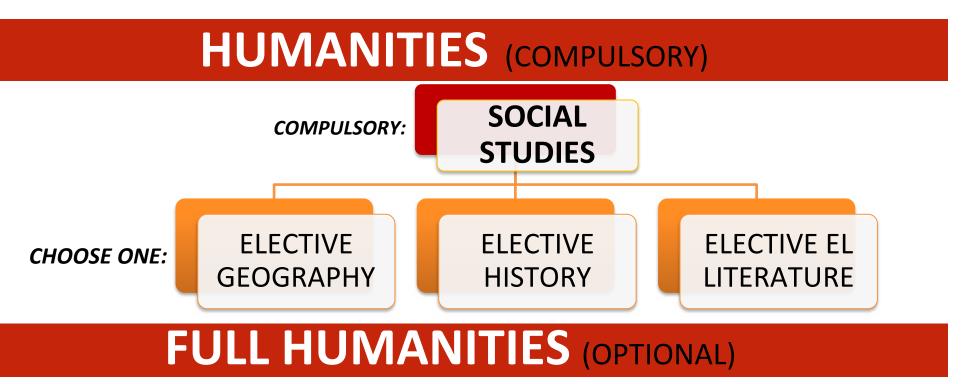
- logical
- methodical
- consistent
- accurate

Principles of Accounts

(offered as a Full Humanities subject)

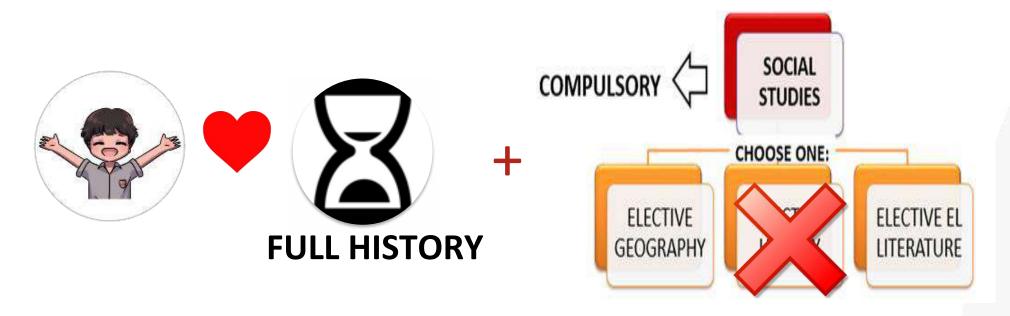


Double Humanities

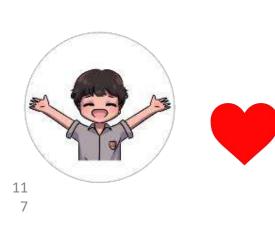


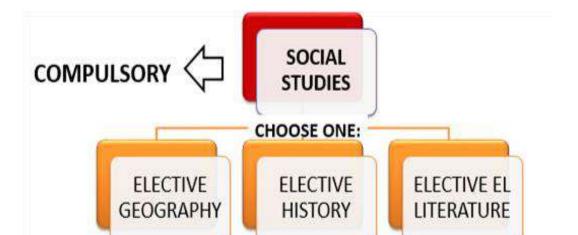


DOUBLE HUMANITIES OPTION



SINGLE HUMANITIES OPTION









THANK YOU

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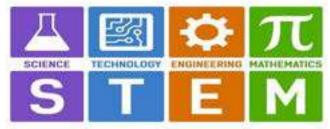
ADDITIONAL MATHEMATICS



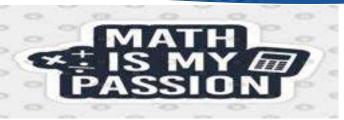
Mr OOI WEI YONG
HEAD OF DEPARTMENT/MATHEMATICS



Why offer A. Math?



For those who aspire to pursue STEM education and career, learning more advanced mathematics early will give them a head start.



For those who have the interest and ability, to learn more mathematics so that they can pursue mathematics or mathematics-related courses of study in the next stage of education.



Considerations to offer A. Math in Sec 3

- Exhibit good proficiency in Mathematics
 - → Good Pass in Sec 2 Mathematics
- Focus & Ability to manage new subject combination



Criteria to offer A Math in Sec 3

EXPRESS

Through Sec 2 Subject Option Exercise:

Students to choose the subject during their subject combination selection.

Normal (Acad)

By invitation only:

1) A) Currently taking S2
Express Math & coping
well

OR

- B) Achieved top 15% of cohort in N(A) Maths
- 2) Teacher's recommendation in relation to attitudes & ability to cope





THANK YOU

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Secondary 2 Express Course

Pure Sciences

SH/Science, Mr Traven Loh Wei Chuen

Core Geography/ History

SH/ Humanities (covering), Mdm Lee Hui Cheng

Computing

HOD/ Mathematics, Mr Ooi Wei Yong

Literature n Chinese (optional)

HOD/Mother Tongue, Ms Ng Ching Ing

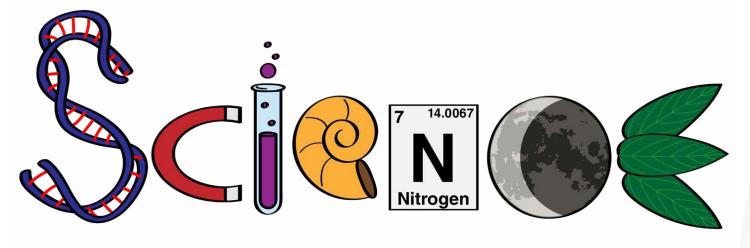


PURE SCIENCES



Mr Traven Loh Wei Chuen Subject Head/Science

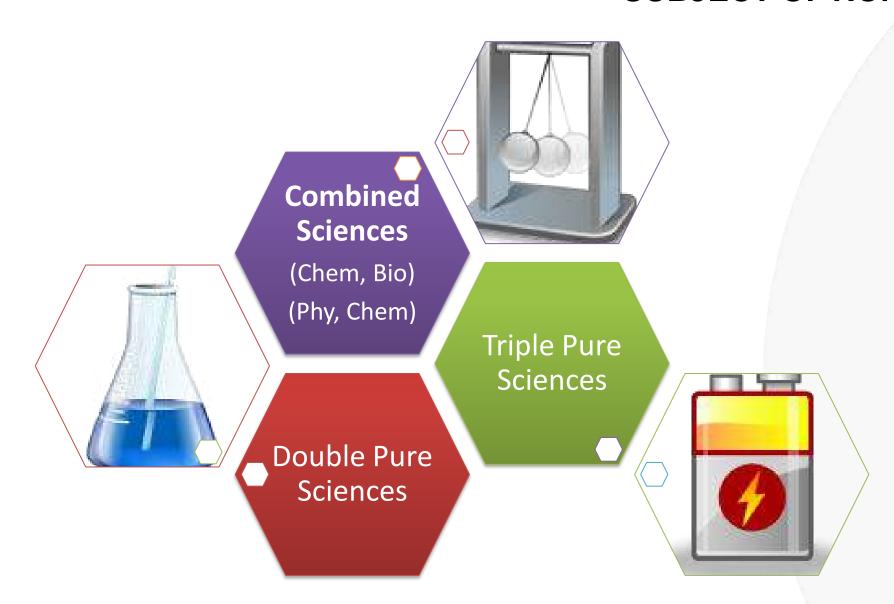




is all around us

Understanding the differences between Pure and Combined Science







Details	Pure Sciences	Combined Sciences
Subject component	Standalone subject	Two science subjects combined into a single subject
Content coverage	100%	approximately 65% of the corresponding pure science subject
Curriculum time	Each Pure Science subject 9 periods / week	Each Combined Science subject 6 periods / week
	Double Pure = 18 periods / week	Combined Sciences = 12 periods
	Triple Pure = 27 periods / week	



Scheme of Assessment

Details	Pure Sciences (for 1 subject)	Combined Sciences (for 1 component)	Sec 2 Science
MCQ	30% of subject	10% of subject	30 marks
	(40 marks, 1 hr)	(20 marks, 30 mins)	
Structured	50% of subject	32.5% of subject	60 marks
Qns	(80 marks, 1 hr 45 mins)	(65 marks, 1 hr 15 mins)	
			Total: (90 marks, 2 hr)
Practical	20% of subject	7.5% of subject	N.A.
	(40 marks, 1 hr 50 mins)	(15 marks, 45 mins)	



Details	Pure Sciences	Combined Sciences
Assessment		Knowledge
weightings	15%	20%
	Understanding	Understanding
	30%	30%
	Handling Information & Solving	Handling Information & Solving
	Problems	Problems
	55%	50%



Details	Pure Sciences	Combined Sciences
No. of Assessments at O-Level	Double Pure: 6 papers Triple Pure: 9 papers	4 papers
Assessment questions posed	 Tend to be tricky and indirect. Students need to unpack the meaning of the questions. 1 Data-based question (10 – 12 marks) About 5 to 30% calculations Greater % of explanations 	straightforward than for Pure Science.



Details	Pure Sciences	Combined Sciences
Requirement of answers	More marks allocated to each part question	Lesser marks allocated to each part question
	 Some calculation questions require 2 or 3 steps to solve 	Most calculation questions require 1 or 2 steps to solve



Details	Pure Sciences	Combined Sciences
Practicals	 2 to 3 questions per subject Measurements – know the appropriate decimal places and units Table – draw a table and decide on the measurements to take 	the appropriate decimal places and units
	 Graph – interpret which set of data falls on which axis Planning – write out a plan for an experiment 	



Is taking Triple Pure Sciences necessary?

- Medicine and Dentistry require Chemistry and Biology OR Physics
- Aspiring JC students are strongly encouraged to take Double Pure Sciences and Double Humanities





THANK YOU

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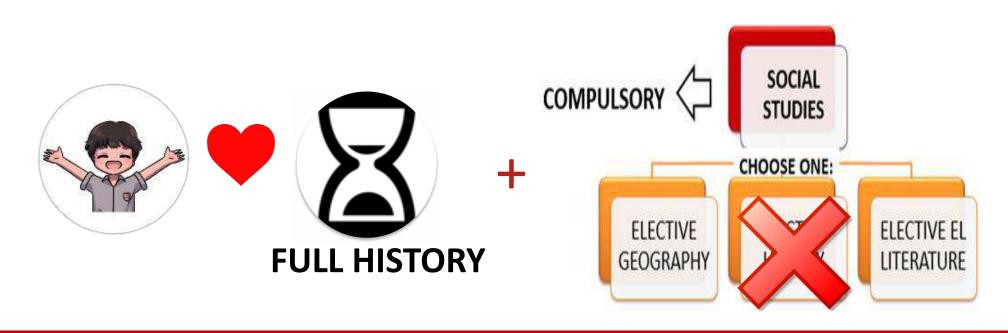


CORE GEOGRAPHY/ CORE HISTORY

Mdm Lee Hui Cheng
Subject Head/Humanities (covering)



DOUBLE HUMANITIES OPTION



SINGLE HUMANITIES OPTION





- Geography in everyday life
- Tectonics
- Tourism
- Climate
- Singapore
- Extended Fieldwork



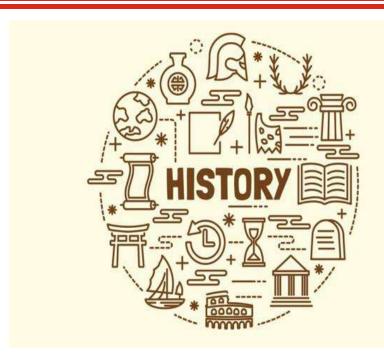
Geography (offered as a Full Humanities subject)

SCHEME OF ASSESSMENT

Paper 1	Candidates answer three compulsory structured questions.	
1h 45min	 Question 1*: Cluster 1 – Geography in Everyday Life (Topic 1.3) (20 marks) Question 2: Cluster 2 – Tourism (15 marks) 	
50 marks	Question 3: Cluster 3 – Climate (15 marks)	
50%	Each structured question will consist of no more than 9 sub-parts.	
	Candidates will be required to answer one 9-mark question testing AO3 in either Question 2 or Question 3. This question will be marked using generic level descriptors. All other questions in this paper will be point-marked. * Question 1 is on fieldwork. The fieldwork context may or may not be based on any of the clusters in the syllabus.	
Paper 2	Candidates answer three compulsory structured questions.	
1h 45min	Question 1: Cluster 1 – Geography in Everyday Life (Topics 1.1 and 1.2) (15 marks)	
50 marks	Question 2: Cluster 4 - Tectonics (15 marks)	
50%	Question 3: Cluster 5 – Singapore (20 marks)	
	Each structured question will consist of no more than 9 sub-parts.	
	Candidates will be required to answer one 9-mark question testing AO3 in either Question 2 or Question 3. This question will be marked using generic level descriptors. All other questions in this paper will be point-marked.	



- Impact of WWI
- Authoritarian Regimes
- WWII in Europe and Asia
- · The Cold War
- Southeast Asia and European Dominance
- Decolonization and the Emergence of nation-states



(offered as a Full Humanities subject)



Assessment Format

The examination consists of two papers - Paper 1 and Paper 2, taken at separate sittings. The duration of each paper is 1 hour 50 minutes. Each paper is assessed by a source-based case study and essay questions.

Se	ction A: Source-Based Case Study (30%)	30m
•	Maximum of 6 sources	- \$50,650
•	Q1(a)-(e): source-based questions (AO1 + AO3)	
Sec	Section B: Essay Questions (20%)	
•	Answer 2 out of 3 questions set (AO1 + AO2)	
•	The questions require candidates to analyse, evaluate and make judgement on historical events and/or issues	
•	Each question carries 10 marks	



Se	ction A: Source-Based Case Study (30%)	30m
•	Maximum of 6 sources	80,000
*	Q1(a)-(e): source-based questions (AO1 + AO3)	
Se	Section B: Essay Questions (20%)	
•	Answer 2 out of 3 questions set (AO1 + AO2)	wa
•	The questions require candidates to analyse, evaluate and make judgement on historical events and/or issues	
	Each question carries 10 marks	1





THANK YOU

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COMPUTING

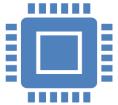
Mr OOI WEI YONG
HEAD OF DEPARTMENT/MATHEMATICS







Technology has impacted our daily lives beyond what we can measure and is still doing so.



As one of the cornerstone of technology, the impact of Computing has become so widespread that it has transformed the very practices of those Science, Technologies, Engineering and Mathematics (STEM)



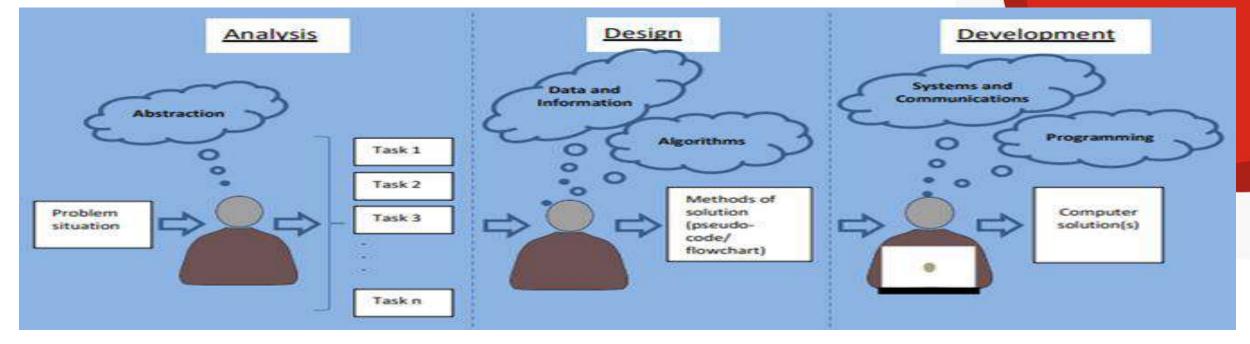
In fact, Computing has also gained a momentum in other industries. One such example is the financial services where Banking corporations are looking towards Computing to give them an edge in Fintech and Data Analytics.

Why we can meas doing so. offer Computing?



What Do I learn?

The curriculum aims to



- inculcate a systematic process of thinking (Computational thinking) for students taking this subject,
- honing their skillsets of problem solving through braking down a problem into a series of parts(abstraction), formulating steps for solutions (algorithmic thinking) and writing computer programs (programming/coding) to produce the solutions. **IRONG SECONDARY SCHOOL**

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What Do I learn?

Three main themes:

- Computer as a science
- Computer as a tool
- Computer in society

Data & Information

- Data Management
- Data Representation
- Ethical, Social and Economic Issue

Systems and Communications

- Computer
 Architecture
- Data Communications

Abstraction and Algorithms

- Problem Analysis
- Algorithm Design

Programming

- ProgramDevelopment
- Program Testing



How am I Assessed?

Paper	Mode	Duration	Weighting	Marks	Format	Modules assessed
Paper 1	Written	2 hrs	70%	80 marks	 A mixture of Short-answer questions Matching questions Cloze passage Structured questions 	All the four modules
Paper 2	Lab Based practical Exam	2 hrs 30 min	30%	50 marks	 4 compulsory structured questions Use of spreadsheet functions and features Refinement of programme Debugging of programme Development of programme with no more than 40 lines of code 	Unit 1.1 Data Management from module 1 Module 4: Programming



Question: A check digit for an 8-digit number is calculated by:

Sample Question_ 2018 O level P1

- · multiplying each digit by 3 or 1 alternately as shown in the following table
- · adding together the result of each multiplication
- · dividing the total by 10 which gives a remainder
- subtracting the remainder from 10 to give the check digit, unless the remainder is 0.

If the remainder is zero (0), the check digit is 0.

The calculation of the check digit for the number 19483725 is:

Number	1	9	4	8	3	7	2	5
Multiply by	3	1	3	1	3	1	3	1
Result	3	9	12	8	9	7	6	5

Total =
$$3 + 9 + 12 + 8 + 9 + 7 + 6 + 5 = 59$$

Write an algorithm, using pseudo-code or a flowchart, to generate a check digit using the method given in the question.



Who should Take it?

Passion

Students who are

- 1) Passionate & curious about the world of computing
 - How computers work etc..
- 2) interested & enthusiastic about computer science
 - Programming e.g. microbit project
- 3) Aspiring to take computing in JC or in Polytechnic



Students who

- 1) are good & proficient in Mathematics
- 1) Able to think systematically, logically and meticulous
- 1) Right attitude towards problem solving
- 1) Comfortable in writing programming codes



Criteria to offer Computing in Sec 3

- Displayed interests & enthusiasm in programming
- Good Pass in Sec 2 Mathematics & EL
- Based on academic merit and available vacancies

Note:

For parents and students:

A practical session is expected to be scheduled in the afternoon of the week. As such, students with sports CCAs or having language classes in the weekday afternoons might be affected for 1 afternoon within the week.







THANK YOU

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Secondary 2 Normal Course

Design & Technology, Nutrition & Food Science, Elements of Business Studies HOD/Applied Studies, Mrs Juliana Ng

Principles of Account
HOD/ Humanities, Ms Anna Cai

Mobile RoboticsSH/Science, Mr Traven Loh Wei Chuen





APPLIED STUDIES

Design & Technology 7055
Nutrition & Food Science 6073
Element of Business Studies 7066



Mrs Juliana Ng

Head of Department/Applied Studies



1. NA course: DT and NFS

2. NT course: EBS





Design and Technology 7055





What do I learn?

Design Process

Application of Design

Thinking and

Manipulation skills

Technology
Application of technology
to display the use of
mechanism and electronic

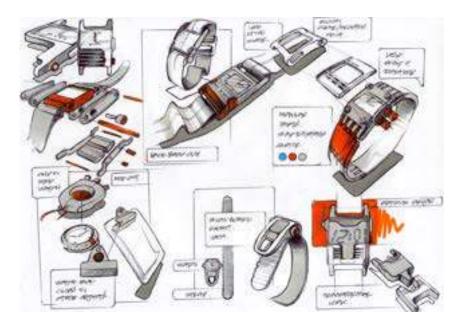


How am I Assessed?

Paper	Mode	Duration	Weighting	Marks	Format
Paper 1	Written	1 hr 30 mins	40%	60 marks	3 compulsory structured questions Q1: Knowledge application on Design Q2&3: knowledge application of Technology, esp Mechanisms and Electronics
Paper 2	Design Project	20 weeks	60%	60 marks	 2 components: Design Journal and Presentation Board Design Journal to include: A time-stages plan (Gantt chart) Details on the development of design ideas and solutioning Mock-up(s) / prototype / mould/jig/former Presentation Board To communicate succinctly the proposed design solution on 2 A2-size board

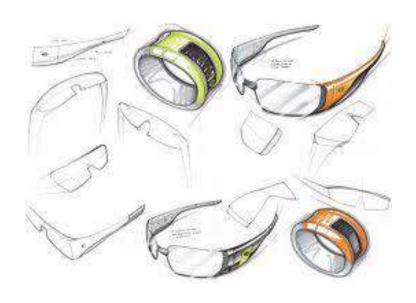
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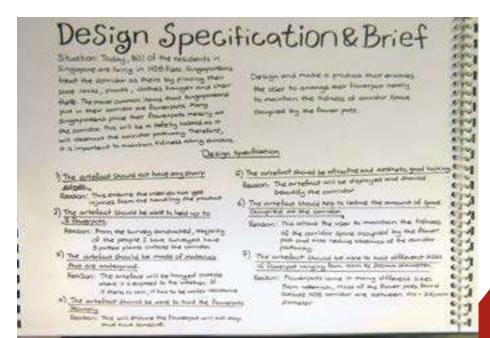
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Design Journal







Prototype







Presentation Board

Number 1: **Find visuals**

design opportunities are everywhere, get out there to seek and gather findings.



When I was taking art in lower secondary, I had to buy many items for painting class, it is all big and inconvenient which led to me bringing an extra bag for art all the time. I have classmates facing problems of losing some component and they felt that its too

Internet: found pictures of messy school bags, shows

materials that is big and has many different separate

how student do not have extra space for art

component. >>problem















Nutrition and Food Science 6073



JURONG SECONDARY SCHOOL LOYALTY • INDUSTRY • SINCERITY • LOVE

What do I learn? **Nutrition and Food** Science Food Food **Nutrition** and Science **Literacy** Health



How am I Assessed?

Paper	Mode	Duration	Weighting	Marks	Format
Paper 1	Written	1 hr 30 mins	40%	60 marks	3 sections: Section A: Multiple choice Section B: Structured questions Section C: Essay questions
Paper 2	Coursework	12-16 hours	60%	60 marks	6 sections: Research (6m) Decision Making (6m) Exploratory Studies (12m) Planning (6m) Execution (24m) Evaluation (6m)

Table 22. Food Preparation Skills Expectations

2.		Skil	Set 1		
Choose any <u>2</u>	May include: slice, dice, julienne, chop, mince, carve (garnish), grate into appropriate sizes	May include:	Combine or Shape rap, skewer, coat, layer ients	Setting or Finishing May include:	
		Skil	I Set 2		
Choose	Biscuits and Cakes	Pastry		Dough (Yeast and Pasta)	
1 only	proper techniques to achieve biscuits/cakes with desired sensory qualities	proper techniques to achieve pastries with desired sensory qualities		proper techniques to achieve yeast and pasta dough with desired sensory qualities	
1872	CANADA CONTRACTOR STATE OF THE STATE OF	Ski	I Set 3		
Choose 1 only	May include: • thick batter: thick consistency: able to coat/bind food • thin batter: pouring consistency		May include:		









Element of Business Studies 7066





 The syllabus aims to provide YOU with the opportunity to develop foundational business knowledge, employability skills and values that are transferable over different areas of work, for the future. (with particular emphasis on retail, travel and tourism, and hospitality industries)















- You will understand how these businesses satisfy the needs and wants of customers with their goods and services;
- Examine how these businesses communicate and improve quality customer service to customers;
- Investigate how businesses can improve customer
 experience in the face of technological advancements;
- Develop information-gathering, communication, problem solving and decision-making skills.



As an EBS student, you need to be

- Observant
- Curious
- Able to gather relevant information
- Decide on the best strategy for a particular business in a particular industry.





How am I Assessed?

Paper 1 (100 Marks)	Paper 2 (80 Marks)
60%	40%
1 hr 30 min Written Paper	20 hours Coursework:
	requires candidates to conduct a business investigation in one of the 3 service industries in the Singapore.

Thus, this subject is weighted more towards the theory component and less on the coursework.

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How am I Assessed?

For the Coursework, there would be 5 tasks based on the business the candidate identified.

- Task 1: Information Gathering
- Task 2: Nature of Business and its customers
- Task 3: Marketing Mix and Customer Service
- Task 4: Competition and Trends in the Service Industry
- Task 5: Decision making and recommendations





THANK YOU

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Principles of Account



Ms Anna Cai Shi Hui Head of Department/Humanities



- The Roles of Accounting
- The Accounting Information Syste
- Elements of Financial Statements
- Financial statement analysis
- · Business Entities



Please refer to attached video for the recorded version of this presentation



Principles of Accounts

(offered as a Full Humanities subject)





THANK YOU

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MOBILE ROBOTICS

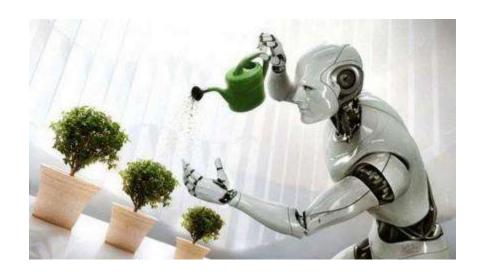


Mr Traven Loh Wei Chuen Subject Head/Science



Mobile Robotics

MOE-ITE Applied Subject





2-year course Construct own mobile robots Foundation for mechatronics engineering or related fields

2023 SEC 2 MTP & SUBJECT OPTIONS TALK

MOE-ITE Applied
Subject

Electricity and Electronics



- Basic Electricity
- Basic and Digital Electronics



Related Courses in ITE



Nitec in Mechatronics (College Central and West)



Nitec in Mechanical Engineering (College Central, East and West)



Nitec in Rapid Transit Technology (College West)



Nitec in Electronics (College Central, East and West)



Mobile Robotics Curriculum

Chapter	Topics				
1	Mobile Robots				
2	Basic Electricity				
3 Basic Electronics					
4	Digital Electronics				
5	Design				
6	Input and Output Devices				
7	Simple Mechanisms				
8	Simple Robots				
9	Integration				



N(T)-Level Mobile Robotics Assessment

Paper	Type of Paper	Duration	Marks	Weighting
1	Written	1h	30	30%
2	*Practical (Connect a control circuit)	1h 30m	42	30%
3	Practical (Integrate & test a mobile robot)	2h	80	40%

^{*}Paper 2 is now assessed in Sec 4 from the 2024 cohort.

The Syllabus document can be downloaded from:

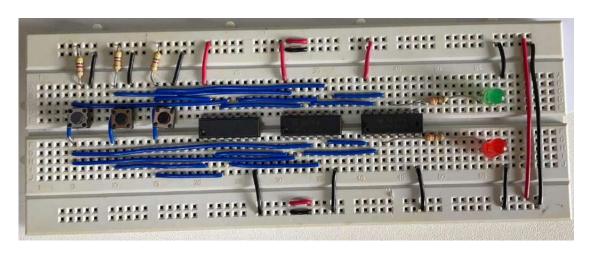
https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2024syllabus/A101_y24_sy.pdf

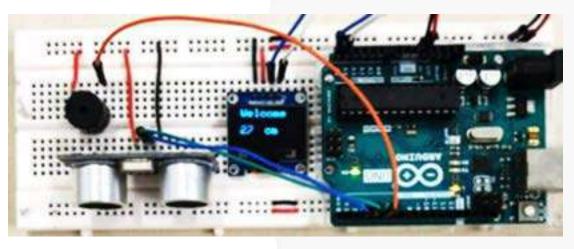


Sec 4 Practical Paper 2

Students need to:

- 1. Interpret a circuit diagram
- 2. Connect a control circuit on a breadboard





For current batch of students

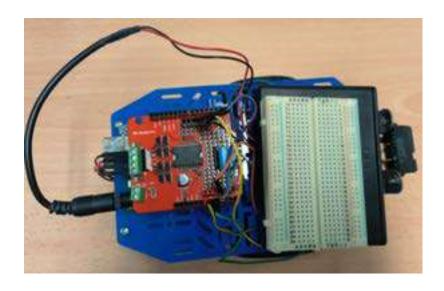
From Sec 3 2024 onwards

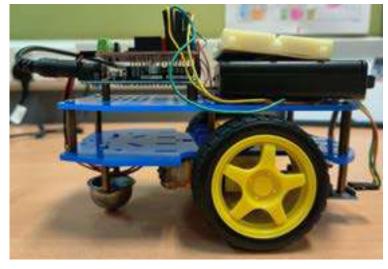


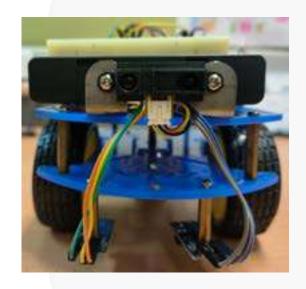
Sec 4 Practical Paper 3

Students need to:

- 1. Assemble a mobile robot
- 2. Test the robot to perform a specific set of actions







For current batch of students



Sec 4 Practical Paper 3

Students need to:

- 1. Assemble a mobile robot
- 2. Test the robot to perform a specific set of actions

*Learn block coding but not tested during the practical exam





From Sec 3 2024 onwards



Special Note

MR can be used in **lieu of N(T) Maths or Science** for admission into selected *Nitec* courses that require a prerequisite pass in these subjects

Mobile Robotics can be offered concurrently with Design & Technology.



Key Considerations



Is my child eligible for the subject combination?





THANK YOU

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