

Secondary 2 SOE Talk

24 May 2019

(The slides used for this session can be accessed
via Parents Gateway)

Parents Gateway



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Objectives



Highlight key considerations when deciding on subject options



Provide information about subjects for which choice is given and options must be exercised



Clarify doubts regarding the year end Subject Option Exercise (SOE)

Flow of Events

Address by Vice Principal, Ms Deborah Tan

Briefing by Subject Head of Science Department, Mr Traven Loh

Briefing by Head of Applied Studies Department, Mrs Juliana Ng

Briefing by Head of Humanities Department, Mr Timothy Boay



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Address by Vice Principal Ms Deborah Tan



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End of Sec 2

4/5 Year Secondary Programme

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

Important Next Step

4/5 Year Secondary Programme

Sec 2	Sec 3	Sec 4	Sec 5
<ul style="list-style-type: none">▪ EOY Exam▪ Subject Options Exercise (SOE)	<ul style="list-style-type: none">▪ GCE 'N' Level Exam Journey		<ul style="list-style-type: none">▪ GCE 'O' Level Exam Journey

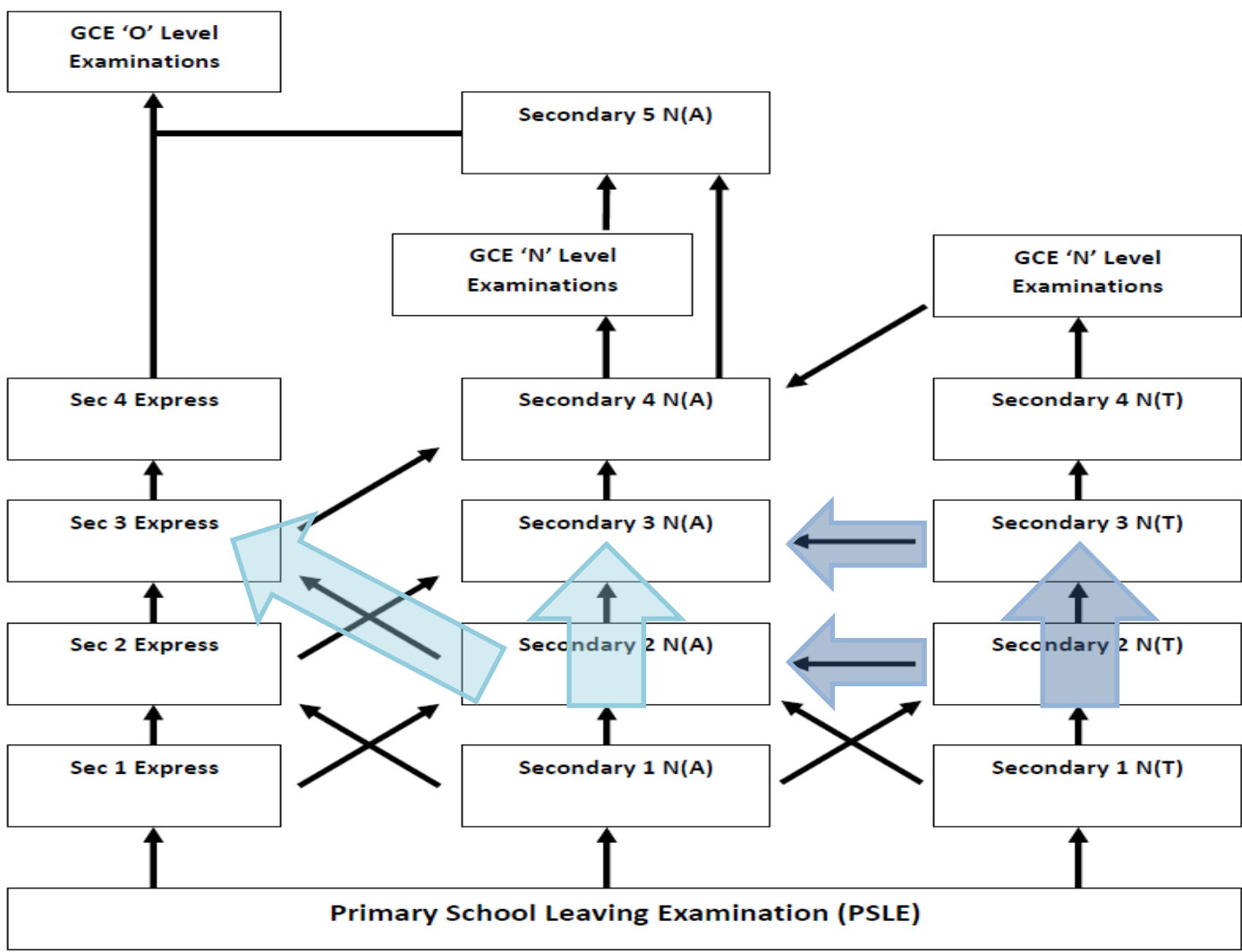


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Progression Chart

Promotion Criteria 2N(T)

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)

Promotion Criteria 2N(A)

Criteria

Status

Performed exceptionally well

- At least 70% or higher in average for all subjects

Transferred to Sec 3 Exp

Met minimum criteria

- Pass EL and 2 other subjects
- Pass in any 4 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)

4 Key Guiding Questions



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4 Key Guiding Questions

1. Strength

- What am I good in? What are my strengths?

2. Aspirations

- What do I want to do after secondary school?

3. Manageability

- What curriculum load can I cope with?

4. Eligibility

- Do I meet the criteria to offer the subject?



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Your Support and Partnership



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Strengths and Aspirations



1. Strength

- What am I good in? What are my strengths?

2. Aspirations

- What do I want to do after secondary school?

3. Manageability

- What curriculum load can I cope with?

4. Eligibility

- Do I meet the criteria to offer the subject?



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Our SOE is aligned to our belief that **every child is unique and has different strengths:**

About **flexibility in**

- **choice of Science, Humanities and Applied Studies subjects**
 - **choice to offer higher level subjects where relevant**
- while ensuring a holistic schooling experience for all



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Normal (Technical) Course

Core	Discipline	Option	Choice
EL BMT MA	<u>Science*</u> 1 subject <i>*Only for students on SBB</i>	Combined Science at NA Level	CH-BI/ PH-CH
SC (T) CPA	<u>Applied Studies</u> 1 subject	NT Level	EBS/ DT/ FS/ MU/ MR

Subjects highlighted in **red** are also SBB subjects (i.e. study of these subjects at N(A)/ Exp levels are offered to students who meet the eligibility criteria)



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Normal (Academic) Course

Core	Discipline	Option	Choice	By Offer
EL MTL MA Social Studies (Half of Elec Hum)	Science 1 subject	Combined	CH-BI/ PH-CH	
	Humanities 1 subject	Elective (compulsory)	GE/ HI/ Lit in Eng	
	POA/Applied Studies 1 subject		DT/ FN/POA	
	Mathematics	Nil	Nil	A MA

Subjects highlighted in red are also SBB subjects (i.e. study of these subjects at N(A)/ Exp levels are offered to students who meet the eligibility criteria)



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Academic Syllabuses

Information about subjects from Singapore Examination and Assessment Board website

<https://www.seab.gov.sg/>

The screenshot shows the SEAB website interface. At the top, there is the SEAB logo and the Singapore Government logo with the tagline 'Integrity · Service · Excellence'. Navigation links include CONTACT US, FEEDBACK, SITEMAP, and FAQ. A search bar is present with the text 'SEARCH: Search here' and a dropdown menu for 'With SEAB'. The main navigation menu includes Home, About Us, National Examinations (highlighted), Assessment Services, and Public Communications. Under National Examinations, there is a sub-menu with PSLE, GCE (N/T)-Level, GCE (N/A)-Level, GCE O-Level, and GCE A-Level. A banner image shows hands writing on a document, with the text 'National Examinations' overlaid. Below the banner, the breadcrumb trail reads 'Home > National Examinations > PSLE > General Information'. The main content area is divided into two columns: 'National Examinations' and 'GENERAL INFORMATION'. Under 'National Examinations', there is a sub-menu with 'PSLE' and 'General Information'. Under 'GENERAL INFORMATION', there is a paragraph: 'The Primary School Leaving Examination (PSLE) is conducted in Singapore annually. It is a national examination which pupils sit at the end of their final year of primary school education. A pupil can sit the PSLE if he/she is studying in an approved institution in Singapore.'



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Important decision for parents whose child is currently on SBB programme, or are offered Out-of-Stream (OOS) subject at Sec 3

Qns: Should my child continue to be on the SBB programme or take up OOS subjects offered by the school at Upper Secondary level?



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Your Support and Partnership

Post secondary pathways for students on the Normal courses



Nitec Programmes



Secondary 4 N(A)



Polytechnic Foundation Programme (PFP)



Direct-Entry-Scheme to Polytechnic Programme (DPP)



Nitec Programmes



Secondary 5 N(A)

Your Support and Partnership

A strong literacy and numeracy foundation would help ensure students are **better prepared** for these progression pathways

- All students are encouraged to deepen their knowledge in **English, Mathematics and Science**



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Posting of applicants to ITE *Nitec* courses

- Posting is based on **merit & subject to vacancies** in open competition
 - aggregate of the best 4 GCE ‘N’ Level subjects, including pre-requisite subjects and bonus points (where applicable); and
 - Met **course-specific entry requirements**



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ITE Minimum Entry Requirements

Business Services	GCE 'N' Level Passes (Grade A-D or Grade 1-5) in English , and two other subjects, OR 2 GCE 'O' Level Grades (Grade 1-8) in any two subjects (English, Maths, Mother Tongue language, Science)
Applied Food Science & Nursing	3 GCE 'N' Level Passes (Grade A-D or Grade 1-5) in Maths, Science , and one other subject, OR 2 GCE 'O' Level Grades (Grade 1-8) in Maths and Science
Aerospace Machining Technology	3 GCE 'N' Level Passes (Grade A-D or Grade 1-5) in ' Maths or Science ', and two other subjects, OR 2 GCE 'O' Level Grades (Grade 1-8) in any two subjects (English, Maths, Mother Tongue language, Science)



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Computation of ITE aggregate points

Computation of ITE aggregate points for N(A) and N(T) subject grades for merit-based admission

N(T) Grade	ITE Aggregate Point
A	1
B	2
C	3
D	4
U	5

N(A) Grade	ITE Aggregate Point
1,2	1
3	2
4	3
5	4
U	5



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ITE bonus points

Bonus points are awarded when an applicant has been deemed eligible and is being considered for posting based on merit

Types of Bonus Points	Number of Bonus Points Awarded
<i>N(A) Passing Grades:</i> <i>Grades 1–5 for pre-requisite subjects (e.g. English, Mathematics, Science) for the course applied for</i>	<i>2 points for each pre-requisite subject, up to a max of <u>4 points</u></i>
<u>CCA Grades</u> <ul style="list-style-type: none">• A1 – A2• B3 – C6	2 points 1 point



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For students on N(A) course offering Exp level subjects, GCE 'O' and 'N' Level results may be combined to compute the aggregate score, for merit-based admission into PFP and DPP

GCE 'O' Level Grade	GCE 'N' Level Grade
A1 – B3	1
B4 – C6	2
D7 E8 (for DPP only)	3

Grade Conversion Table for 'O' Level to 'N' Level Grade

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Minimum Entry Requirements for PFP

Course cluster	Minimum entry requirements
<ul style="list-style-type: none">Applied SciencesBusiness & ManagementBuilt EnvironmentEngineeringHealth SciencesInformation & Digital TechnologiesMaritime StudiesMedia & Design	<ul style="list-style-type: none">ELMAB3 \leq 12EL \leq 3MA \leq 3Comb Sci / F&N / D&T \leq 3Any other two subjects \leq 3Meet subject-specific minimum entry requirements
<ul style="list-style-type: none">Business & ManagementHumanitiesMedia & Design	<ul style="list-style-type: none">ELMAB3 \leq 12EL \leq 2MA \leq 3POA / E Lit / Hist / Geog / Comb Humans / Art \leq 3Any other two subjects \leq 3Meet subject-specific minimum entry requirements

Refer to <https://pfp.polytechnic.edu.sg/PFP/index.html> for full range of courses and subject-specific minimum entry requirements.

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Minimum Entry Requirements for DPP

Course cluster	Minimum entry requirements
<ul style="list-style-type: none">Applied SciencesEngineeringInfo-Communications Technology	<ul style="list-style-type: none">ELMAB3 \leq 19EL \leq 4MA \leq 4Any other three subjects \leq 5Meet subject-specific minimum entry requirements
<ul style="list-style-type: none">Business & Services	<ul style="list-style-type: none">ELMAB3 \leq 19EL \leq 3MA \leq 4Any other three subjects \leq 5Meet subject-specific minimum entry requirements

Refer to <https://www.ite.edu.sg/wps/portal/definitely-dpp/> for more information.

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Note

For PFP, GCE 'O' Level grades of E8 & F9 and GCE N(A) grade of U will not be considered for computation of the aggregate score

For DPP, GCE 'O' Level grade of F9 and GCE N(A) grade of U will not be considered for the computation of the aggregate score

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Key

Implication:

Help your child
find his/ her
strength



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Make an appointment to meet your child's Form Teachers to discuss possible subject options



Thank you



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Briefing by Subject Head of Science Department
Mr Traven Loh
<loh_wei_chuen@moe.edu.sg>



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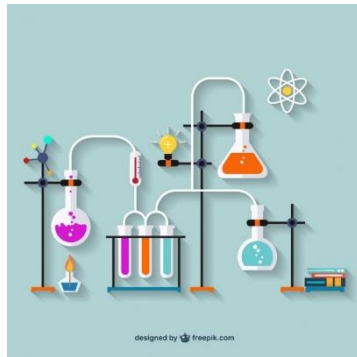
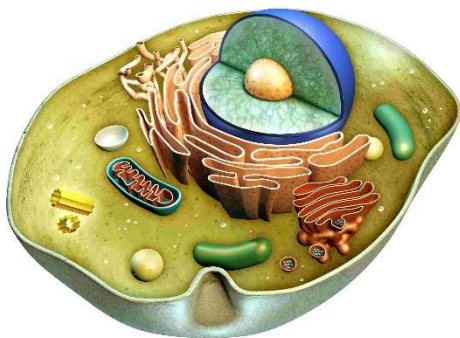


is all around us



Biology

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

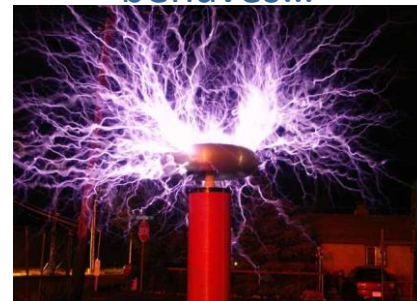


Chemistry

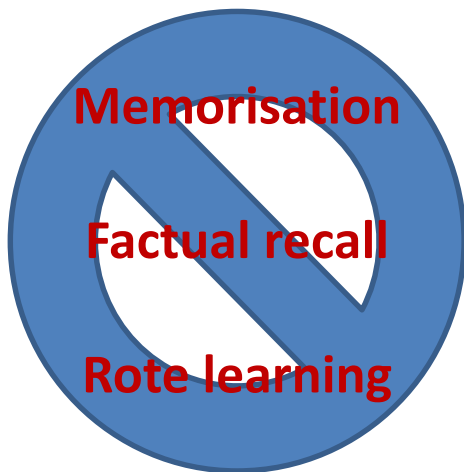
The study of the composition, structure, properties and change of **matter...** known as the 'central science' that bridges physics and biology

Physics

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



The Science Syllabuses



- ✓ Much greater emphasis on the **understanding** and **application** of scientific concepts and principles
- ✓ More focus on **practices of science** that highlight the ways of thinking and doing inherent in the scientific method



Skills, Processes, Values & Attitudes in Science



Physics:

- Able to think abstractly
- Strong mathematical foundation
- Shows interest in the interactions of the physical world

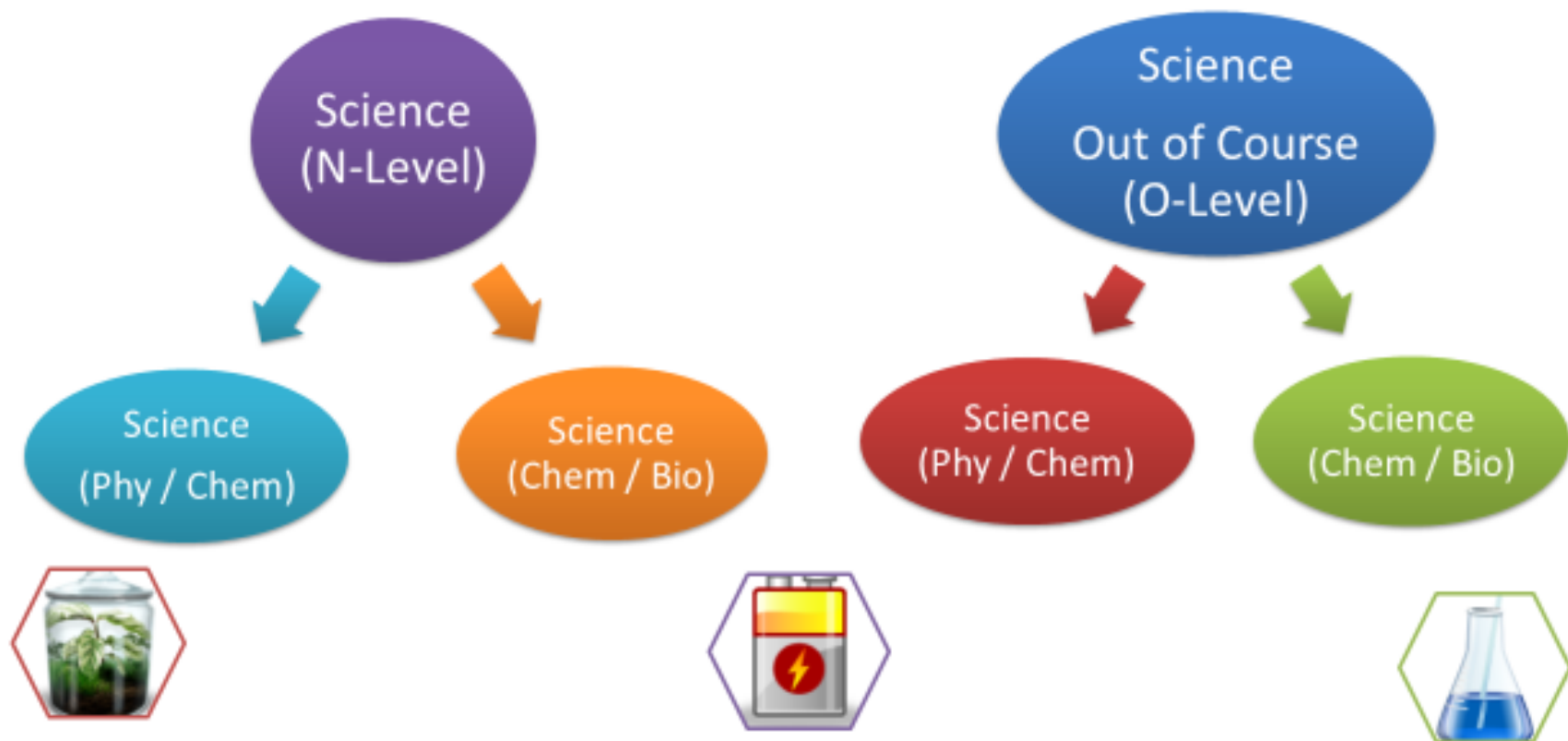
Chemistry:

- Able to think abstractly
- Able to deal with ambiguity
- Shows interest in understanding transformation of matter at the atomic/molecular level

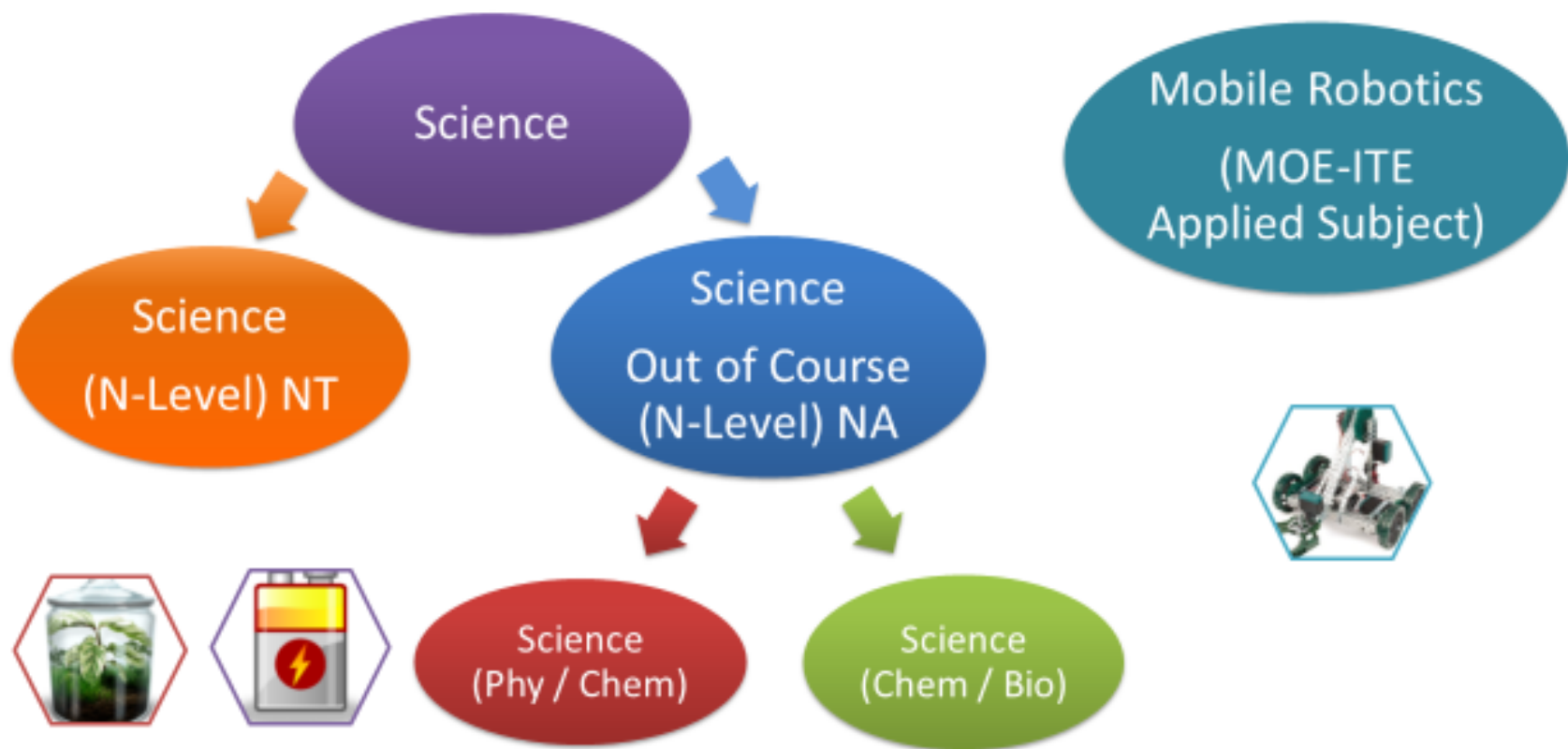
Biology:

- Able to appreciate cause and effect relationships
- Strong language ability
- Shows interest in living systems and the natural world

Science Subjects in Upper Sec (NA)



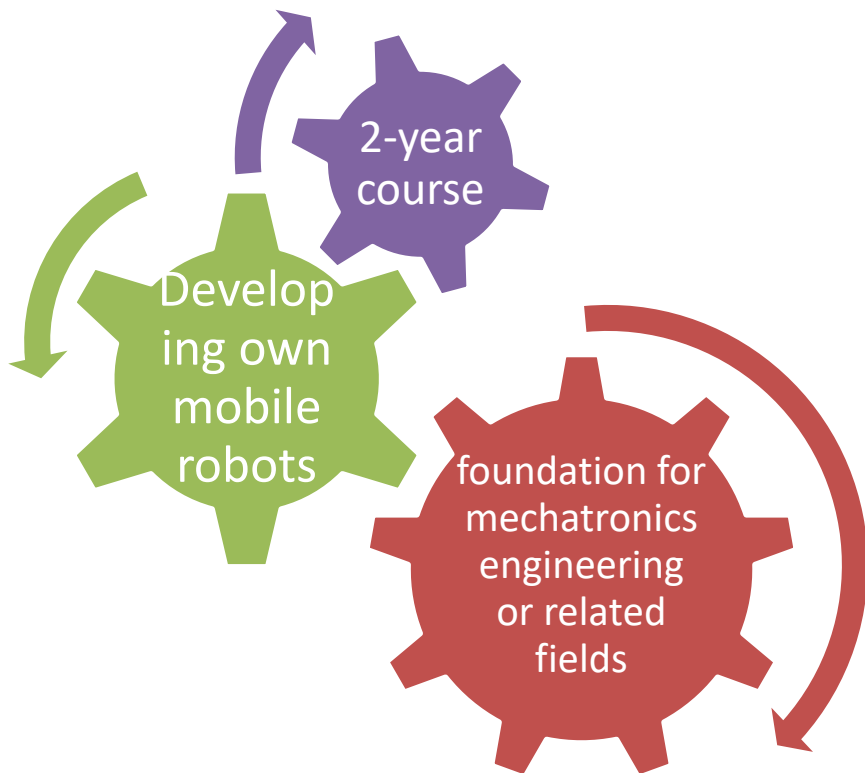
Science Subjects in Upper Sec (NT)



Mobile Robotics

MOE-ITE Applied Subject

Mobile Robotics



**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 Rapid Transit Technology
(College West)*



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



*Nitec in Electronics (College
Central, East and West)*

Assessment

Overview

- Mobile Robotics – Introduction
- Design

Electricity and Electronics

- Basic Electricity
- Basic and Digital Electronics
- Input-Output Device

Robotics

- Simple Mechanism
- Material and Practical Processes
- Integration

N-Level Paper
2 (Practical)

in Secondary 3

N-Level Paper
3 (Practical)

in Secondary 4

N-Level Paper
1 (Theory)

in Secondary 4

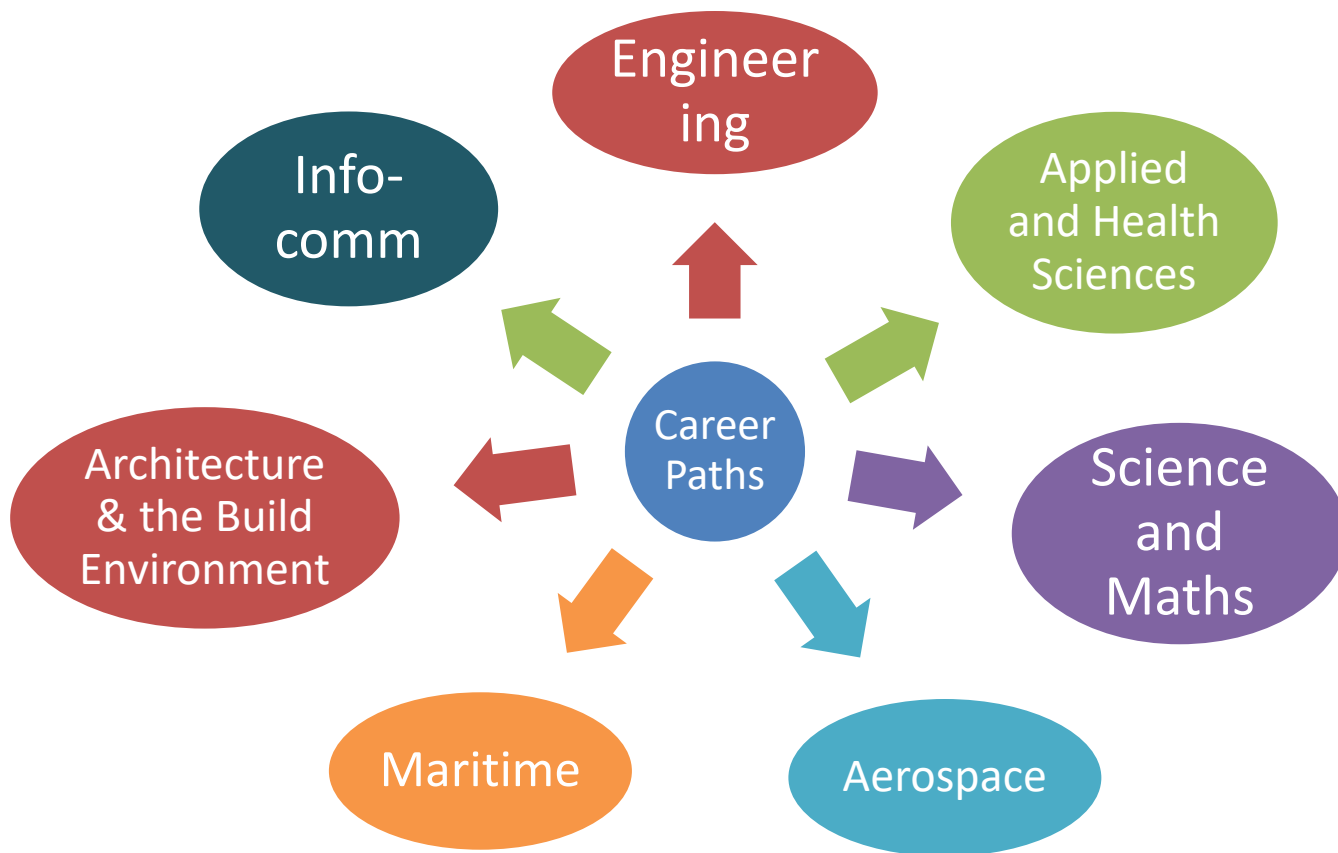


Special Note

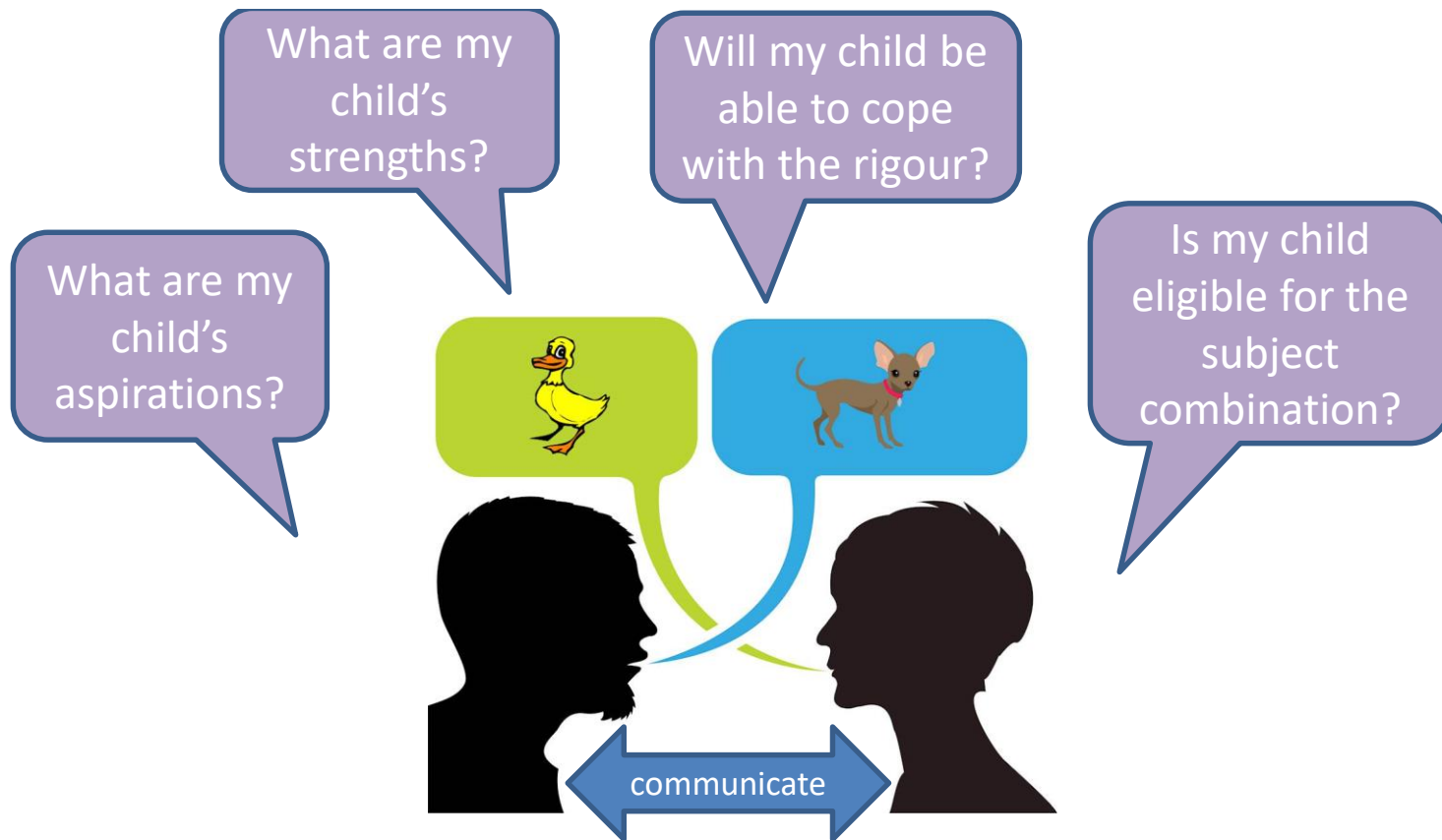
Mobile Robotics **cannot be offered concurrently** with Design & Technology, in view of the overlapping content between the two syllabuses.

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

Value of Offering Science



Key Considerations





Download Syllabuses from SEAB

Subject	Code
Combined Science (O-Level) EXP	5076/ 5078
Combined Science (N-Level) NA	5105/ 5107
Science Syllabus T (NT-Level)	5148
Mobile Robotics	A101

EXP: <https://www.seab.gov.sg/home/examinations/gce-o-level/o-level-syllabuses-examined-for-school-candidates-2020>

NT: [https://www.seab.gov.sg/home/examinations/gce-n\(a\)-level/n\(a\)-level-syllabuses-examined-for-school-candidates-2020](https://www.seab.gov.sg/home/examinations/gce-n(a)-level/n(a)-level-syllabuses-examined-for-school-candidates-2020)

NA: [https://www.seab.gov.sg/home/examinations/gce-n\(t\)-level/n\(t\)-level-syllabuses-examined-for-school-candidates-2020](https://www.seab.gov.sg/home/examinations/gce-n(t)-level/n(t)-level-syllabuses-examined-for-school-candidates-2020)

Briefing by Head of Applied Studies Department
Mrs Juliana Ng
<goh_wee_peng@moe.edu.sg>



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Applied Studies Subjects

Subjects offered at N(A) Level

1. Art
2. Design and Technology
3. Food and Nutrition

Subjects offered at N(T) Level

1. Design and Technology
2. Elements of Business Studies
3. Food Studies
4. Music

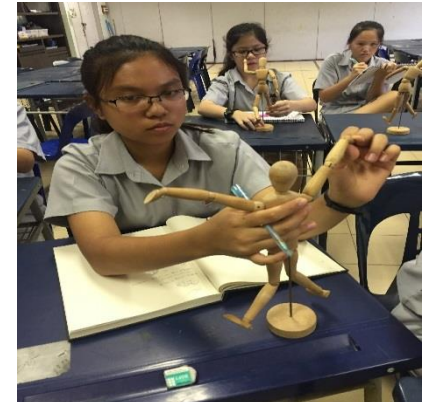
ART at N(A) Level (6125) provide students with an opportunity to give form and meaning to their ideas, thoughts and feelings through visual and tactile forms

Assessment Format

Syllabus	Paper 1	Paper 2
O* & N Level	60% Preparatory Study + Final Work	40% Preparatory Study + Drawing and Painting Examination

** For O Level, school is not offering the option of Paper 3 Study of Visual Arts*

Recommended for talented art students who will benefit from an individualised, process-based learning experience



NT MUSIC 6129

- provides scope for students to develop their musical perception, broaden their knowledge of music from a wide repertoire and make music, both individually and in groups
- fosters a lifelong interest in music of all kinds



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NT MUSIC 6129

Beyond knowing about different musical styles, students will

Understand the contexts and functions of music, e.g.

- Music in dance, film and media

Experience music arranging with technology

- Create arrangements and backing tracks for existing songs and music
- Apply music technology effects

Experience music performing with technology

- Perform with backing tracks



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Assessment Format

	Paper 1	Paper 2
Music NT 6129	50% Written Examination	50% Coursework



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Design & Technology

NA Level (7055) and NT (7062)

- develop dispositions for enterprise, creativity and innovation through research and exploration, idea conceptualisation and development, communication, and working with materials and tools in response to needs identified



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Assessment Format

	Paper 1	Paper 2
Normal (Academic) DT 7055	40% Written Paper	60% Design Project
Normal (Technical) DT 7062	30% Written Paper	70% Design Project



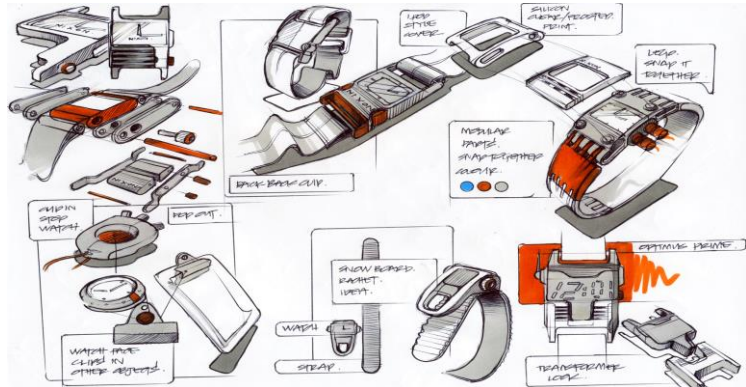
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Design Journal



Design Specification & Brief

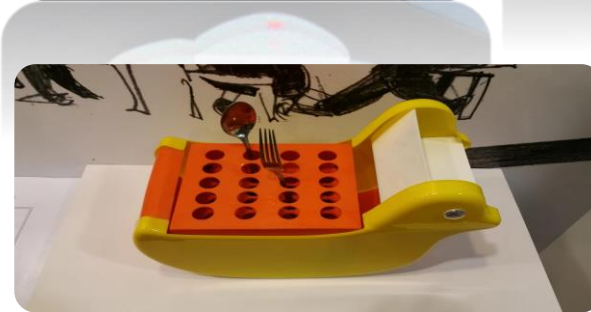
Situation: Today, 80% of the residents in Singapore are living in HDB Flats. Singaporeans treat the corridor as theirs by placing their shoe racks, plants, clothes hanger and chair there. The most common items that Singaporeans put in their corridor are flowerpots. Many Singaporeans place their flowerpots neatly at the corridor. This will be a safety hazard as it will obstruct the corridor pathway. Therefore, it is important to maintain tidiness along corridors.

Design Specification

- 1) The artefact should not have any sharp edges.
Reason: This ensure the users do not get injuries from the handling the product
- 2) The artefact should be able to hold up to 3 flowerpots.
Reason: From the survey conducted, majority of the people I have surveyed have 3 potted plants outside the corridor.
- 3) The artefact should be made of materials that are waterproof.
Reason: The artefact will be hanged outside where it is exposed to the weather. If it starts to rain, it has to be water resistance
- 4) The artefact should be able to hold the flowerpots securely.
Reason: This will ensure the flowerpot will not drop and hurt someone.
- 5) The artefact should be attractive and aesthetic good looking.
Reason: The artefact will be displayed and should beautify the corridor
- 6) The artefact should help to reduce the amount of space occupied at the corridor.
Reason: This allows the user to maintain the tidiness of the corridor space occupied by the flower pot and also reduce obstruct of the corridor pathway.
- 7) The artefact should be able to hold different sizes of flowerpot ranging from 100mm to 200mm diameter.
Reason: Flowerpots come in many different sizes. From research, most of the flower pots found outside HDB corridor are between 100 - 200mm diameter.

Design and make a product that enables the user to arrange their flowerpot neatly to maintain the tidiness of corridor space occupied by the flower pots.

Artefact



Presentation board

Formula ONE



Juan © Pte Ltd



SUSTAINABILITY

The element of sustainability consideration for this design focuses on a small aspect of sustainable design intent. The design could be considered for modular uses and also as a form of transfer of use to children of certain age group (e.g. primary school kids) to learn cooking!

Type of Sauce	Number of teaspoon			
	Dish A	Dish B	Dish C	Dish D
Oil	0	0	0	0
Dark Soy Sauce	3	0	1	2
Light soy Sauce	0	3	2	1
Wine	3	0	2	1
Cornstarch	3	1	1	0
Dark Vinegar	0	0	1	0
Steamer Oil	0	0	0	0
Flour Sauce	0	0	0	0
Chili Sauce	0	0	0	0



Formula ONE

DIMENSION DRAWING



MATERIAL LIST

Description	Material	Size	Quantity
Inlet cover	Acrylic	220mm x 100mm x 3mm	1
Outlet cover	Acrylic	220mm x 100mm x 3mm	1
Handle support	Acrylic	120mm x 45mm x 3mm	6
Dispenser dish	Acrylic	100mm x 100mm x 3mm	6

Dish A

STEAMED MUSHROOMS



Dish B

FISH & BEANCURD SOUP



Dish C

STIR-FRIED ANGLE BEANS



Dish D

BRAISED MEAT WITH PLUM SAUCE



N(A) Food and Nutrition 6072

- Heighten understanding of concepts of nutrition and meal planning and principles of food science



Assessment Format

	Paper 1	Paper 2
Food and Nutrition 6072	40% Written Paper on nutrition, concept of a balanced diet and basic principles underlying food preparation	60% Coursework component in response to a given task; to apply skills of analysis, planning, application and evaluation when completing the tasks



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Food Studies N(Technical) (6079)

- equip students with knowledge of food commodities and basic concepts of nutrition and meal planning, and impact on health
- lay the foundation for students to pursue further learning in courses related to the food industry



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Food Studies 6079



Chicken Burger

Strength	Elaborate on strengths
The patty turn out nice and correct size for a primary school children	I chopped the chicken small and finely. It did not break apart while frying
The burger bun rise up nice and looks like a burger bun	Did not put the burger in the oven for too long. Yeast did not die due to temperature and correct amount of flour
Burger bun shape is good and it is appealing for children	I let the dough rest for exact 15 minutes. So the dough able to 'expand' well

+

Weakness	Elaborate	The mistake I made	How to improve
One of the burger bun still has flour on it	While making the dough into a bun , I added slightly too much flour as the dough is sticky	Added too much flour and never put a bit of water to prevent the dough become too dry then fall apart	while making the dough into a bun , Make sure that I do not add too much flour and if I did , add in a bit of water so it will not be too dry .
The burger bun are two different sizes	I make the burger bun into two which is supposed to be 1 so I decided to make into two small burger	Did two bun when I am supposed to do 1 and never make the two bun equal size	I must be aware that the dough only make into one and not two unless I making it into smaller burgers and

Assessment Format

	Paper 1	Paper 2
Food Studies	40% 1 hr 30 min Written Paper On knowledge of theory and practice as specified in the syllabus	60% 35 hrs Coursework component in response to a given task apply knowledge and understanding in relation to the subject content to the task



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ELEMENTS OF BUSINESS SKILLS (EBS) AT N(T) LEVEL (7066)

- learning of business and enterprise in the service sector (with particular emphasis on *retail, travel and tourism, and hospitality* industries)



Assessment Format

	Paper 1	Paper 2
EBS	60% 1 hr 30 min Written Paper	40% 20 hours Coursework: requires candidates to conduct research on a business in one of the 3 service industries in the Singapore context and make recommendations on how the business can improve its marketing mix or customer service



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Briefing by Head of Humanities Department
Mr Timothy Boay
<timothy_boay@moe.edu.sg>



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N LEVEL HUMANITIES (Subject Overview)



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HUMANITIES (FOR ALL STUDENTS)

COMPULSORY



SOCIAL
STUDIES

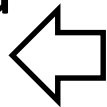
CHOOSE ONE:

ELECTIVE
GEOGRAPHY

ELECTIVE
HISTORY

ELECTIVE EL
LITERATURE

Not Considered
a Humanities
Subject



POA

HUMANITIES

(ASSESSMENT FORMAT + TOPICS TAUGHT)



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HUMANITIES (SOCIAL STUDIES) (compulsory for all students)



1 paper (50%)

1 hr 45 mins

- 1. Source-Based Case Study**
- 2. Structured Response Questions**

GEOGRAPHY

(Offered as an Elective Humanities)

HUMANITIES (GEOGRAPHY)
1 PAPER (1hr40m)

**Plate
Tectonics**

**Weather &
Climate**

**Global
Tourism**

**Food
Resources**

**Geographical
Investigation**

YOU SHOULD CHOOSE GEOGRAPHY, IF YOU ARE:

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.



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HISTORY

(Offered as an Elective Humanities)



YOU SHOULD CHOOSE **HISTORY**, IF YOU ARE:

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.



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PRINCIPLES OF ACCOUNTING

(Offered as a non-Humanities subject)



The Roles of Accounting



The Accounting Information System



Elements of the Financial Statements



The Financial Statements



Business Entities

2 papers

1 hr/2hrs

- 1. Structured Questions**
- 2. Preparing Financial Statements**

YOU SHOULD CHOOSE PRINCIPLES OF ACCOUNTS, IF YOU ARE:

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 and**
- **accurate.**



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OR VISIT:

<http://www.seab.gov.sg>

For my information and details of the
syllabus



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(HUMANITIES) LITERATURE IN ENGLISH

(Please approach Mr Brandon Chai after the briefing)



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