

Secondary 2

Subject Option Exercise (SOE) Talk

17 July 2020

(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, Mdm Julia Ler

Briefing by Subject Head of Applied Studies Department, Mr Lam Chee Leong

Briefing by Head of Science Department, Mr Eric Tan

Address by ECG Counsellor, Ms Jolene Lim



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Address by Vice Principal Mdm Julia Ler



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End of Sec 2

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



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Promotion Criteria 2N(T)

Criteria	Status
Performed exceptionally well <ul style="list-style-type: none">At least 70% or higher in average for all subjects	Transferred to Sec 2 N(A)
Met minimum criteria <ul style="list-style-type: none">Pass EL or Mathematics, andPass 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)

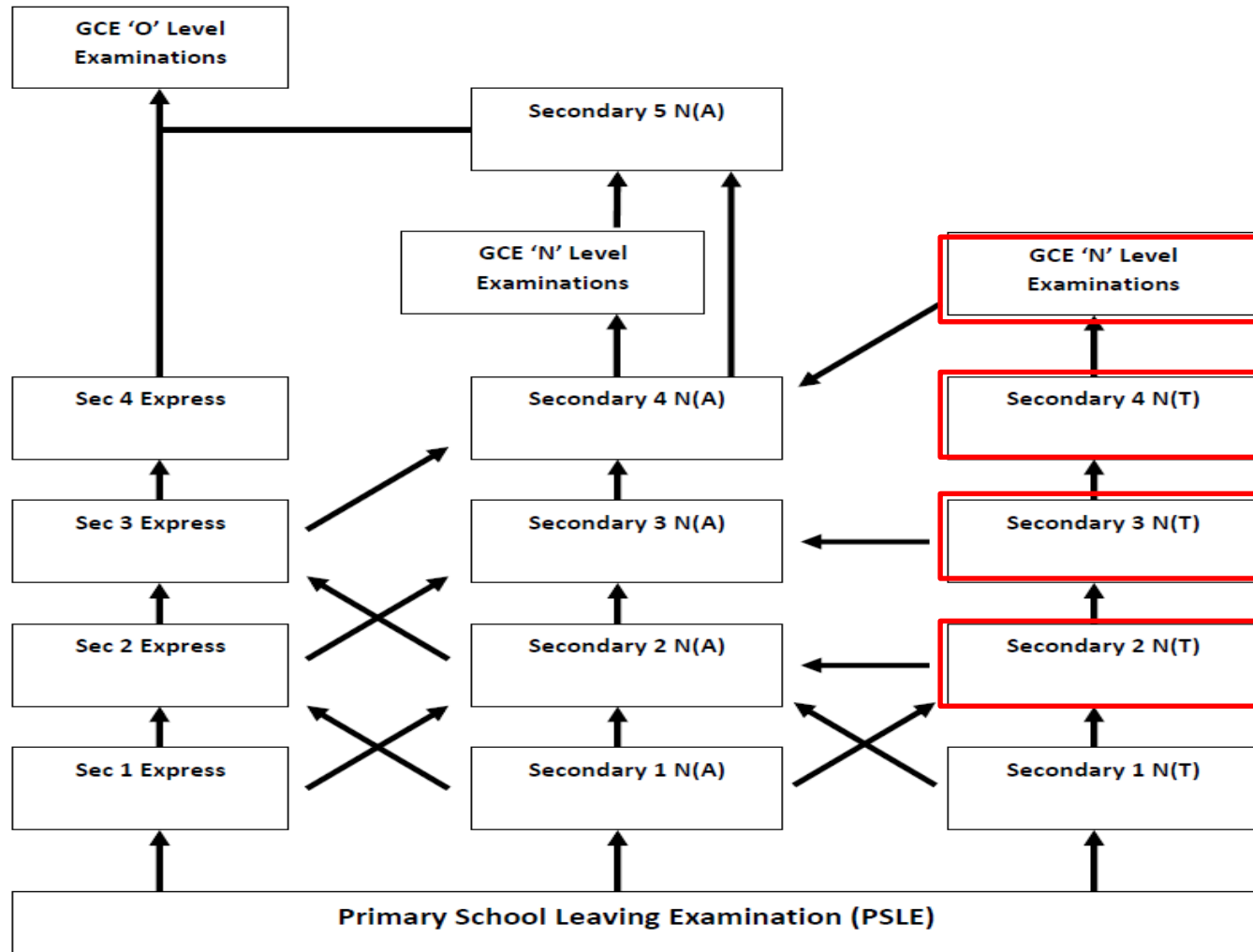


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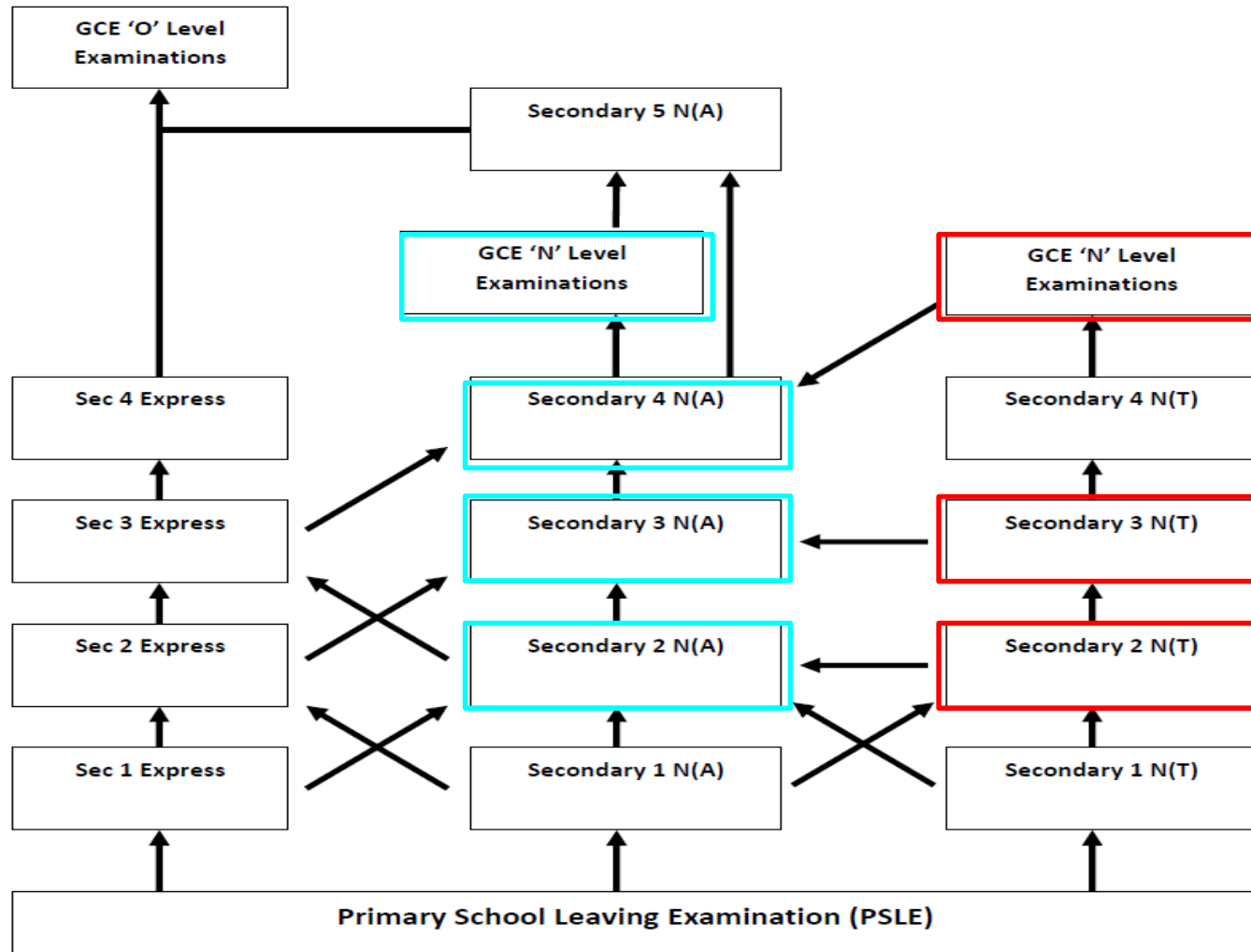
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Progression Chart



Progression Chart

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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Subject Combinations

Normal (Technical) Course

Core	Discipline	Option	Choice
<ul style="list-style-type: none">English LanguageBasic Mother TongueMathematicsScience (T)Computer Applications	<p>Science*</p> <p>1 subject</p> <p><i>*Only for students on SBB</i></p>	Combined Science at NA Level	Chemistry-Biology / Physics-Chemistry
	<p>Applied Studies</p> <p>1 subject</p>	NT Level	Design & Technology / Elements of Business Skills / Food Studies / Music / Mobile Robotics

Subjects highlighted in *red* are also Subject-Based Banding (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 motto '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 'Syllabuses'. The 'GENERAL INFORMATION' section contains the text: '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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Your Support and Partnership

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



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Thank you



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Briefing by Subject Head of Applied Studies Department Mr Lam Chee Leong



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Applied Studies Subjects

Subjects offerd at N(T) Level

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



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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

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 (Technical) DT 7062	30% Written Paper	70% Design Project



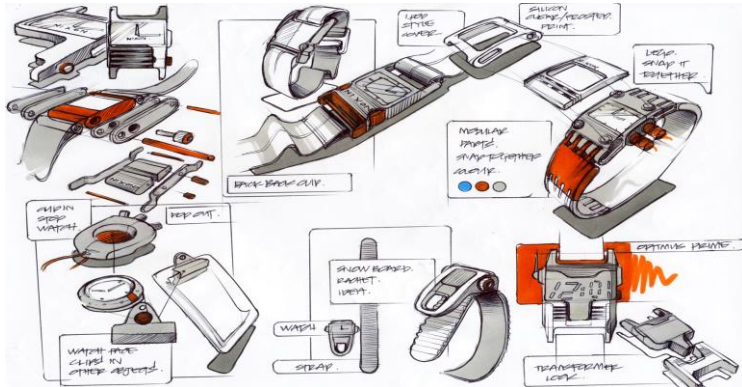
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Design Journal



Design Specification & Brief

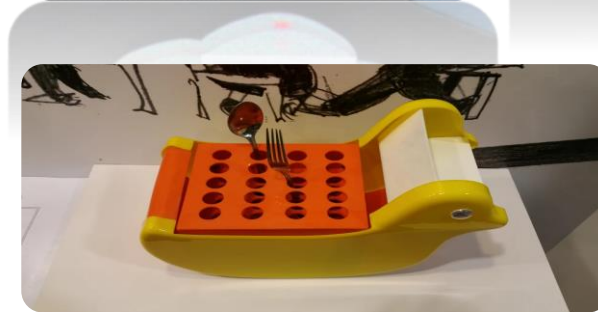
Situation: Today, 80% of the residents in Singapore are living in HDB Flats. Singaporeans treat the corridor as theirs by placing their shoe racks, plants, clothes hanger and chair there. The most common items that Singaporeans put in their corridor are flowerpots. Many Singaporeans place their flowerpots 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

- The artefact should not have any sharp edges.
Reason: This ensure the users do not get injuries from the handling the product
- 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.
- 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
- The artefact should be able to hold the flowerpots securely.
Reason: This will ensure the flowerpot will not drop and hurt someone.
- The artefact should be attractive and aesthetic good looking.
Reason: The artefact will be displayed and should beautify the corridor
- 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.
- 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



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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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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Food Studies N(Technical) (6079)

- Sample Task
- A variety of proteins food can be used as part of a balanced meals. Prepare, cook, and serve a selection of dishes which are high in proteins and would appeal to children at primary school.



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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

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 Science Department Mr Eric Tan



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is all around us

Twin 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



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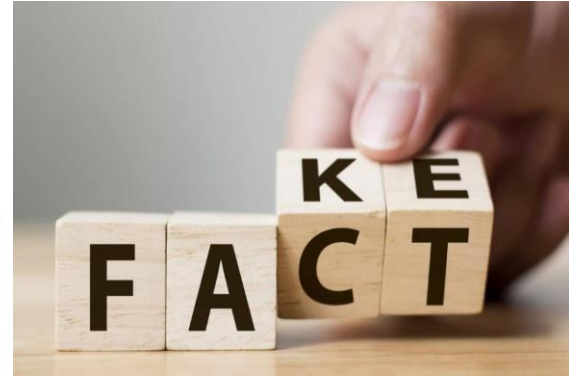
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Why is Science Important?

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?



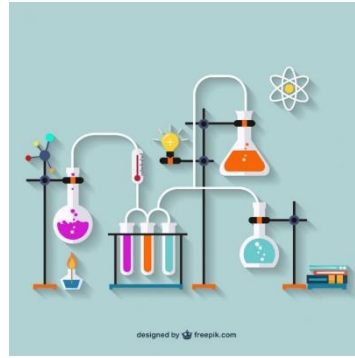
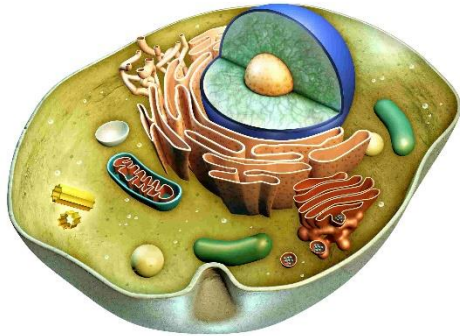
World

Trump's COVID-19 disinfectant ideas horrify health experts



Biology

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



Chemistry

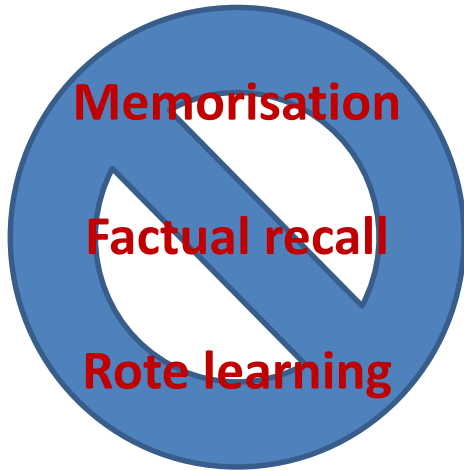
The study of the composition, structure, properties and change of matter... known as the 'central science' that bridges physics and biology

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



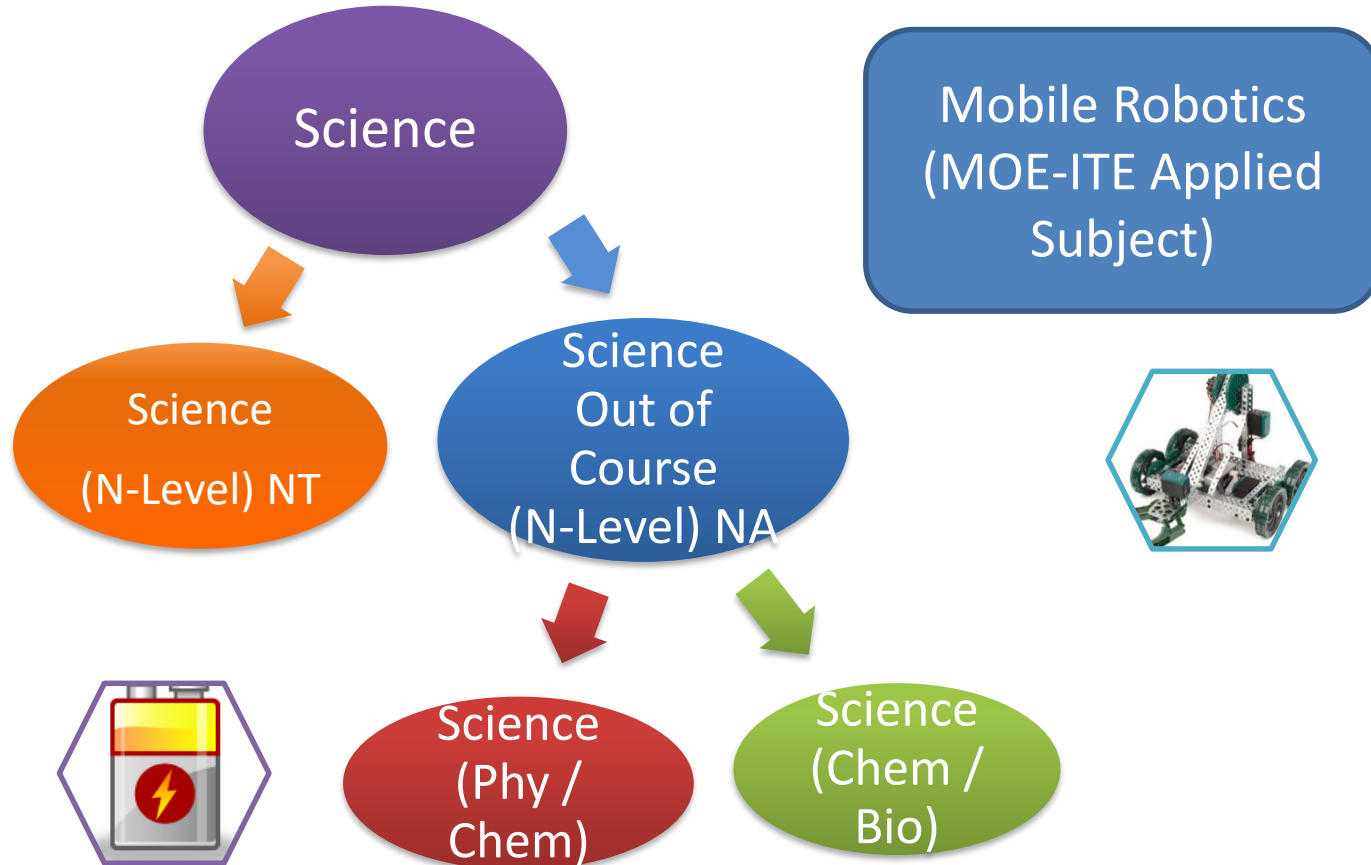
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Science Subjects in Upper Sec (NT)



Which Science is Suitable for ME?

Physics:

- Relatively good mathematical foundation
- Shows interest in knowing how things work



Biology:

- Relatively strong language ability
- Shows interest in the human body and the natural world

Mobile Robotics

MOE-ITE Applied Subject



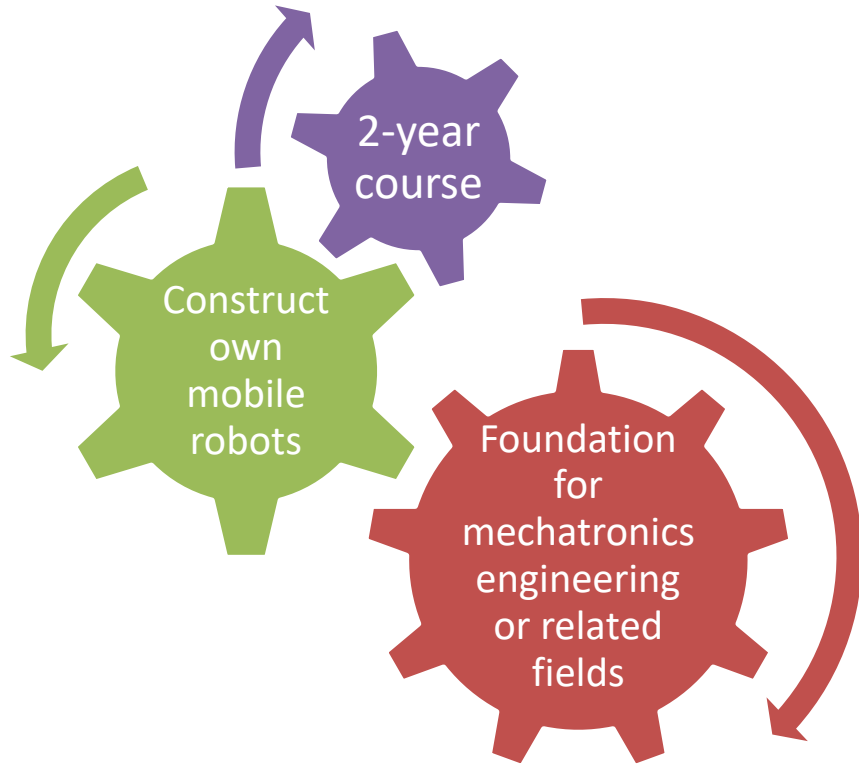
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Mobile Robotics



**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)*

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



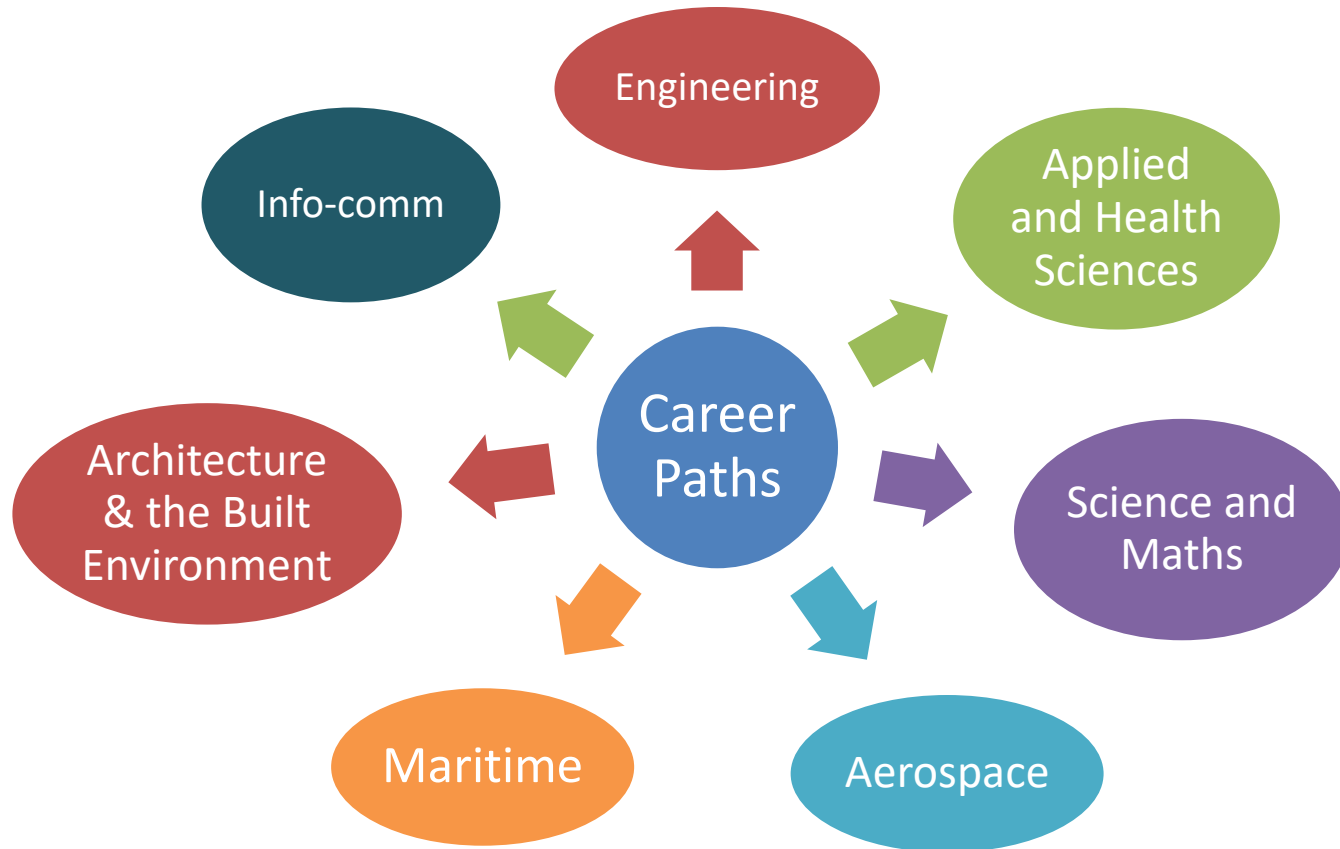
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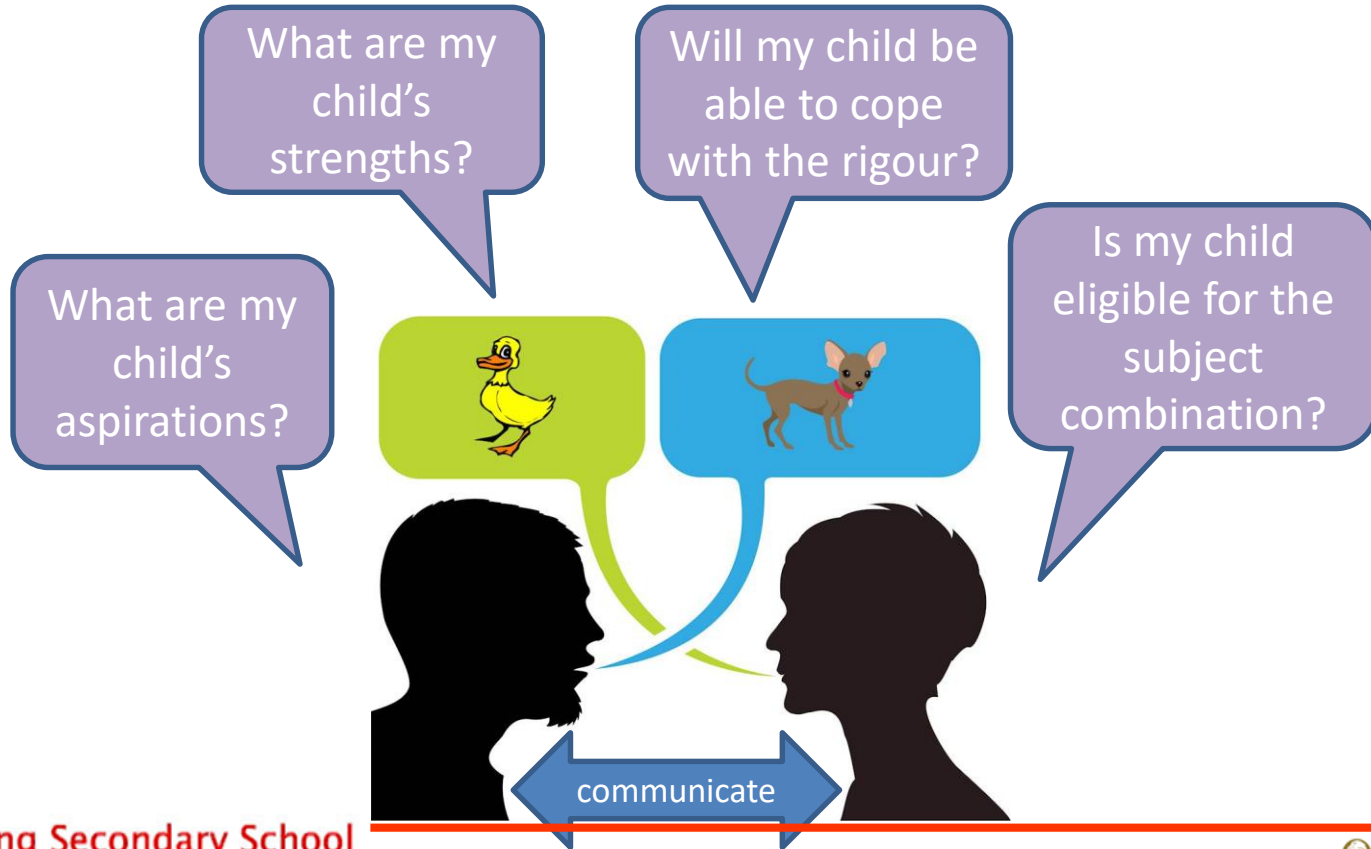
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Value of Offering Science



Key Considerations



Download Syllabuses from SEAB

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



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Briefing by ECG Counsellor Ms Jolene Lim



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Objectives

The objectives of the briefing are to provide parents/guardians with:

- Guide in making informed decisions
- Information on Post-Secondary Education Options
- Practical ways to support their children's Education and Career Guidance journey



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Practical Guiding Questions

The 3 ECG Questions

Who am I?

The more I know about what I value, what I am interested in, and what I am good at, the more likely I will be able to make informed choices in my education and career explorations.



Where do I want to go?

Many pathways are worth taking, and there are opportunities for continuous learning and recognition.



How do I get there?

There are no dead ends. I can continue to pursue my aspirations.



Who Am I?

What you Love

Interests,
Passion
Personality

Career Personality & Preferences – are you someone who prefers to work with people, data, things or ideas?

What you are Good at

Strengths, **Skills**, Talents



What the World Needs

What does the world need that matches what I am good at and what I love to do?

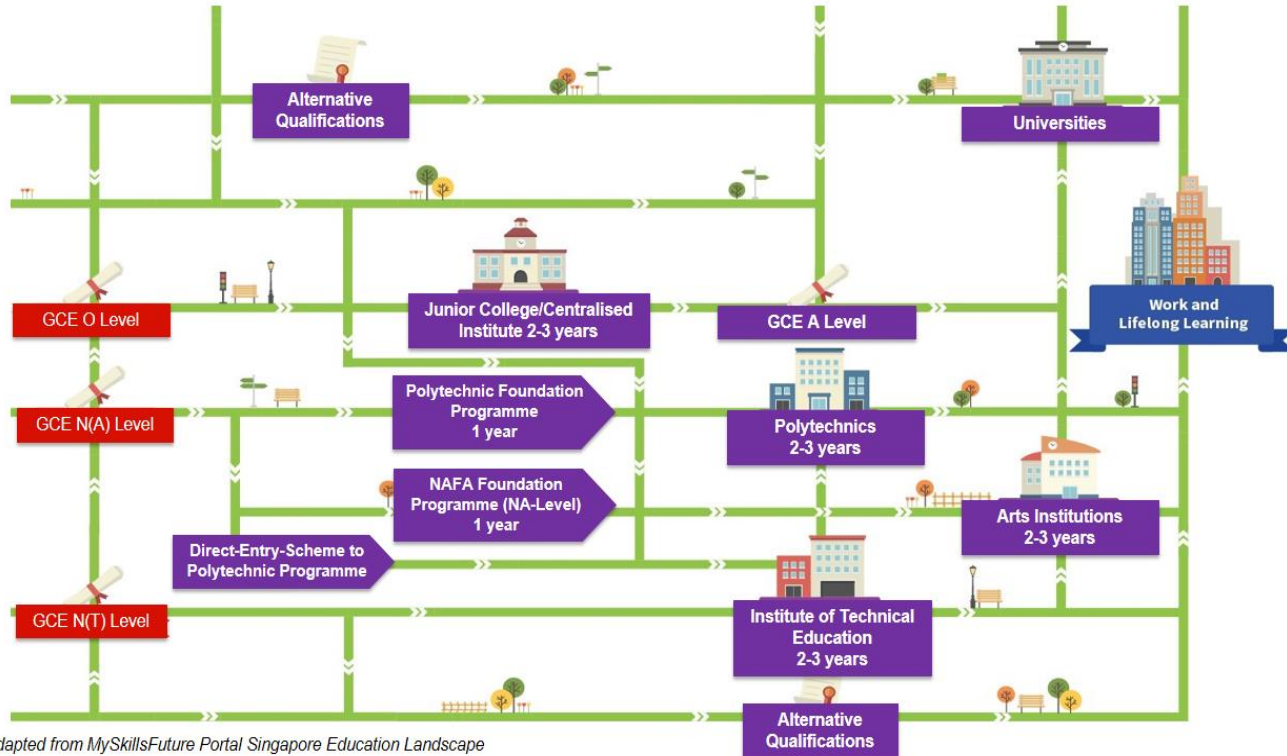
What is out there in the world?
What do I care strongly about
(**Values**)?

Career Interest Profile



Where Do I Want to Go?

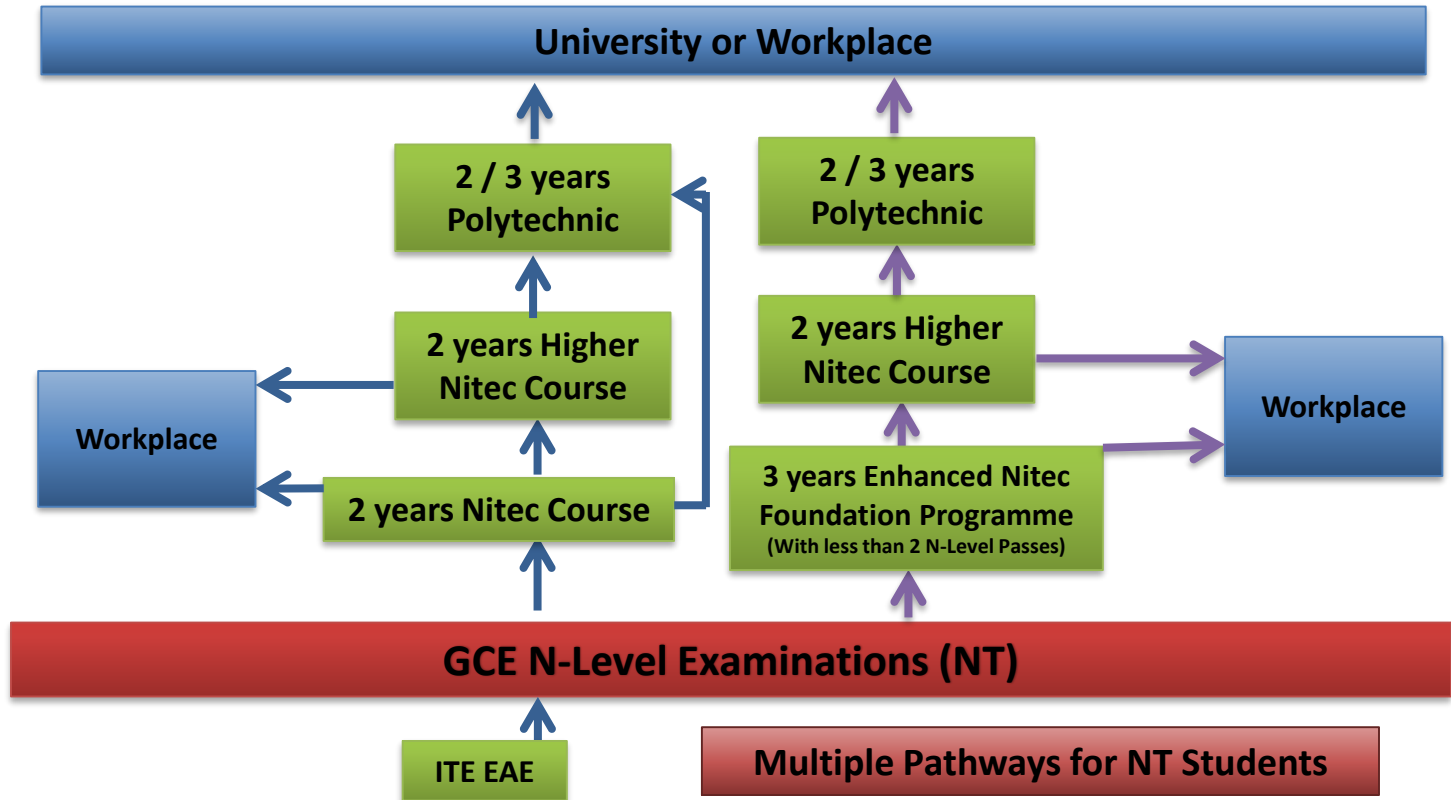
MULTIPLE PATHWAYS FOR STUDENTS



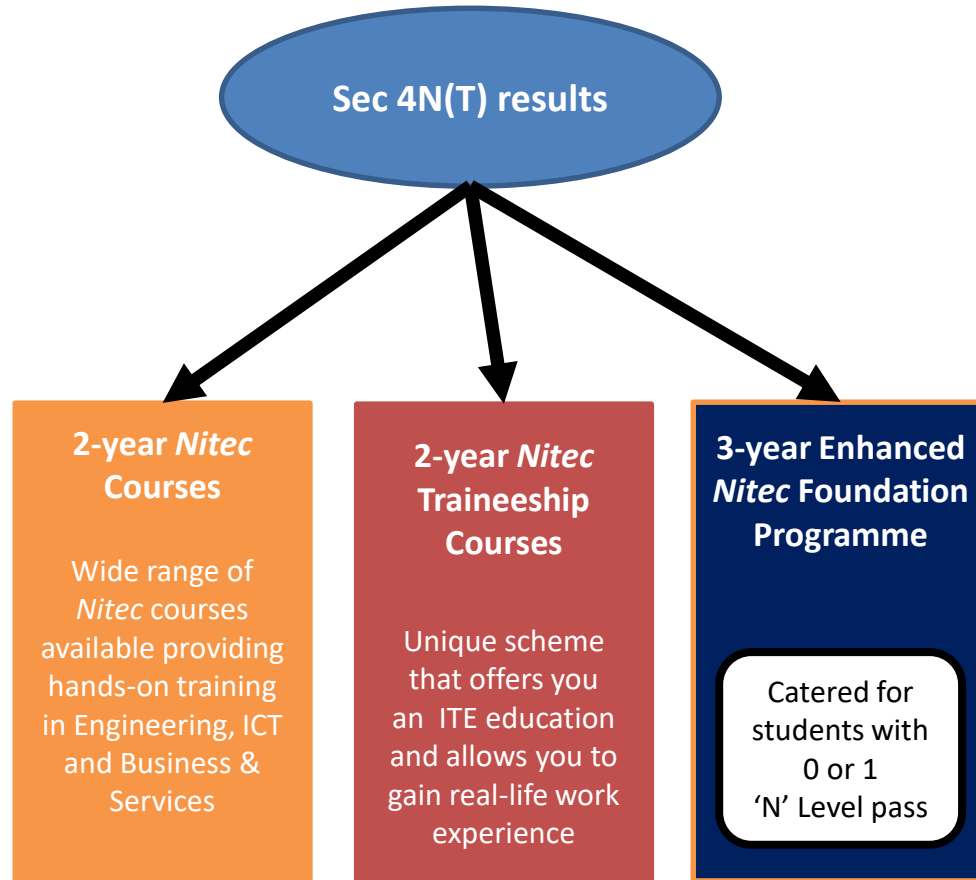
Adapted from MySkillsFuture Portal Singapore Education Landscape

<https://www.myskillsfuture.sg/content/student/en/secondary/education-guide/education-landscape/landscape-overview.html>

Where Do I Want to Go?



Institute of Technical Education (ITE)



Institute of Technical Education (ITE)

National ITE Certificate (Nitec)

- Based on the aggregate of the **best 4 N level subjects**
- Including **pre-requisite subjects** (usually **English** or **Math**) and **bonus points**
- Alternative: **apply for ITE EAE** if you are passionate about the specific Nitec course of your choice



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Polytechnics

 Nanyang Polytechnic



Ngee Ann Polytechnic



Republic Polytechnic



Singapore Polytechnic



Temasek Polytechnic

Courses are **hands-on**
and focus on **preparing**
students for work

Students **graduate**
with
a Diploma in
specific area of study.

Polytechnics

How can I enter a Polytechnic?

Proceed to ITE and using
Nitec/Higher Nitec results

Enter Polytechnic via the
Joint Polytechnic
Admissions Exercise
(JPAE)

Proceed to ITE and using
course-specific aptitudes

Enter Polytechnic via Early
Admissions Exercise (for
ITE students)



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How may I journey with my child? (Resources)




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Supportive Parent

<p>1</p> <p>Show Love and Concern</p> 	<p>2</p> <p>Observe Your Children's Strengths and Interests</p>	<p>3</p>  <p>Listen to Your Children</p>	<p>4</p> <p>Provide a Window to the World of Work</p> 
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 <p>5</p> <p>Support Your Children's Career Interests and Aspirations</p>	<p>6</p> <p>Instil the Importance of Developing Transferable Skills</p> 	 <p>7</p> <p>Model Lifelong Learning</p>
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Useful ECG Resource

1. MySkillsFuture Portal

<https://www.myskillsfuture.sg/secondary>



A

Know Yourself

A screenshot of the MySkillsFuture website's 'Know Yourself' section. The page features a navigation bar with links for 'About', 'Know Yourself', 'World of Work', 'Education Guide', 'Help', 'Feedback', and 'Login'. Below the navigation, the heading 'Know Yourself' is followed by the sub-heading 'Find Out More About Yourself'. A paragraph explains that the tools are meant to facilitate self-awareness and exploration. At the bottom, there are four colorful cards: 'Career Interests' (purple), 'Skills Confidence' (green), 'Work Values' (blue), and 'Learning Styles' (orange). Each card has a 'Get Started!' button. A red circle highlights the 'Career Interests' card.

B

Browse

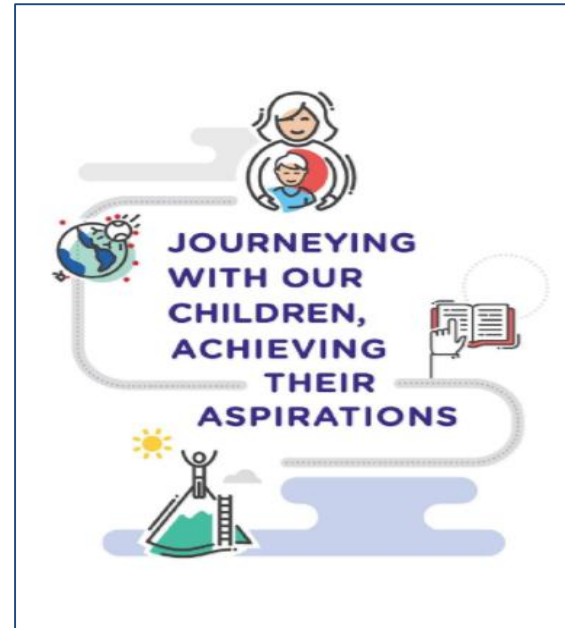
A screenshot of the MySkillsFuture website's 'Singapore Industry Landscape' section. The page features a navigation bar with a 'Select Industry' dropdown menu and a 'View All Articles' button. Below the navigation, there is an isometric illustration of a city street with various buildings and vehicles. Labels for different industries are placed over the buildings: 'Advertising', 'Agriculture', 'Architecture', 'Accountancy', 'Aerospace', and 'Air Transport'.

Useful ECG Resource

2. Parent's ECG Guidebook

This publication supports parents with tips and advice on ECG, and considerations at key education stages to guide their children.

<https://www.moe.gov.sg/ecg-parent-guide>

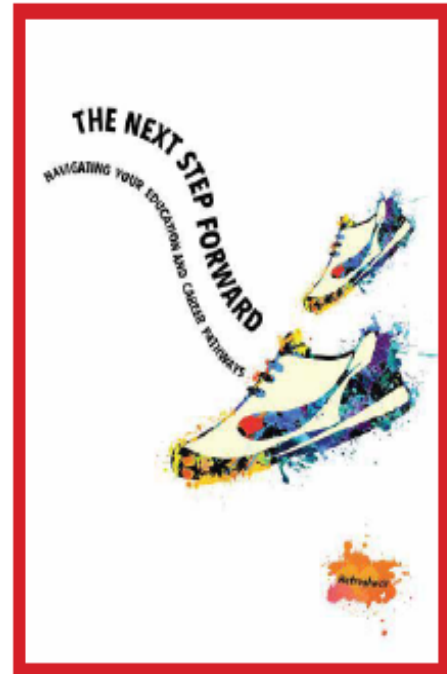


Useful ECG Resource

3. The Next Step Forward

This e-book illustrates how 54 individuals go through diverse education and career pathways. There are many options our students can choose and succeed.

<https://www.moe.gov.sg/the-next-step-forward>





Youth Cyber Exploration
Programme (YCEP)



Reflect on the Experiences



ECG Roadmap



Everyone has a different pathway & journey

ECG Counsellor's Availability

- Name: Ms Joleen Lim
- Day: **Every Tuesday (Odd week) Thursday (Even week)**
- Venue: Education and Career Guidance Room at D04-01
- Contact: lim_chooi_hong@schools.gov.sg
- Appointment
 - Walk in
 - Direct email to ECGC
 - Through Form Teachers
 - Submit ECG Request Form: <https://go.gov.sg/ecgcmsjo>



[ECG Request Form](#)

Thank you



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Q&A Session



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