

2022 Secondary 2 Subject Combinations Information Booklet

[Normal Technical]

Updated 11 August 2022

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Objective of Secondary 2 Subject Combination Exercise

Yishun Secondary School offers a range of subjects in different subject combinations which have been carefully aligned to the MOE curriculum to prepare students and allow them varied options for post-secondary education.

Our subject combinations allow students to pursue their areas of interest and to specialise in the domains of the Sciences or the Humanities, but at the same time maintaining a broad exposure and building key knowledge skills.

This information booklet is prepared with the objective of assisting parents / guardian and the student in making an informed decision on his / her Secondary 3 subject combination that best suits the child.

We hope that you will find the information booklet useful. If you need further clarification, feel free to contact the school.

We also welcome feedback to improve the Information Booklet.

Part 1: Secondary 2 Subject Combinations Exercise [Normal Technical]

1.1 Process

• The timeline of the Subject Combinations can be found below:

Event	Timeline
Zoom Briefing with Parents	15 July 2022, 6pm
	Face to Face @ Yishun Secondary School
Uploading of Subject Information Booklet for respective levels (Change)	19 August 2022
Mock Streaming (Change)	22 – 26 August 2022
Actual Streaming	Term 4 Week 6
Sec 3 Posting Exercise	Term 4 Week 8
Release of Posting Result	Term 4 Week 8
Appeal	Term 4 Week 8/9
Release of Appeal Result	Term 4 Week 9

• More information will be found at the school website near to the date of the event.

1.2 School's Considerations

School's Considerations

The school will also consider the following (not in any order of preference) when allocating subjects

- Student's academic results (Overall academic performance + academic performance in specific subject)
- Students' Choice
- Teachers' recommendations
- Availability of places for each subject combination (there will also be a case where there are insufficient students to start a class)
- School resources such as manpower and physical facilities are also part of the important factors for consideration in planning and allocation to our students

Lastly, the school reserves the right to allocate students if they do not meet the criteria

1.3 Promotion Criteria

Normal Technical

	Back Ballation and	Met Minimum Attainment Level	Not Met Minimum A	Attainment Level
Level & Course	Met Minimum Attainment Level: Grade D or better in 2 subjects, one of which should be EL, or Mathematics	AND Lateral Transfer Guidelines: Minimum of 75% in the overall percentage of all subjects combined	At or above maximum age	Below maximum age [May be advanced to next level within N(T)]
Sec 2NT	Promoted to Sec 3NT	Promoted to Sec 2NA in the following year	Advanced to Sec 3NT	Retained at Sec 2NT

Normal Academic

		Met Minimum	Not Met Minimum Attainment Level	
Level & Course	Met Minimum Attainment Level: Grade 5 or better in EL and 2 other subjects, OR 4 subjects	Attainment Level AND Lateral Transfer Guidelines: Minimum of 75% in the overall percentage of all subjects combined	At or above maximum age	Below maximum age [May be advanced to next level within N(T)]
Sec 2NA	Promoted to Sec 3NA	Laterally Transferred to Sec 3E	Advanced to Sec 3NA	Retained at Sec 2NA

Express

Level & Course	Met Minimum Attainment Level: Pass in EL and a pass in overall percentage of all subjects combined	Not Met Minimum Attainment Level
Sec 2E	Promoted to Sec 3E	Laterally Transferred to Sec 3NA

1.4 Secondary 3 Subject Combinations 2021 - Normal Technical

Normal Technical (2023)

	3T1	3T2	
1	English Language Syllabus T	English Language Syllabus T	
2	Basic Mother Tongue Language	Basic Mother Tongue Language	
3	Mathematics Syllabus T	Mathematics Syllabus T	
4	Science Syllabus T	Computer Applications	
5	Computer Applications	Social Studies	
6	Social Studies	Music Syllabus T Art Syllabus T	
7	Retail Operations (30)		

Points to note

- There will be a cap of 30 students for Retail Operations
- Students who want to take Music Syllabus T at Sec 3 will have to sit for an aptitude test in Sec 2, 2022.

The following subjects will be offered as Out-of-Stream subjects for students that meet the requirements:

	Subjects	Criteria
To be offered Out of	English Language (NA)	75% and above for English
Stream Subjects, the		Language for Sec 2 NT
students must		
achieve 70% and	Mother Tongue Language (NA)	75% and above for Mother
above for Overall		Tongue Language for Sec 2 NT
results at Secondary		
2 NT	Mathematics (NA)	75% and above for
		Mathematics for Sec 2 NT
	Science (Physics , Chemistry) (NA)	75% and above for Science for
		Sec 2 NT

Part 2: Subject Information for Normal Technical Stream

Subject	English Language
Subject Code	1195
Stream	Normal (Technical)

By the end of Secondary education, pupils will be able to communicate effectively in English as a result of their development in the following areas:

- Listen, read and view critically and with accuracy, understanding and appreciation, a wide range of literary and informational/functional texts from print and non-print sources.
- Speak, write and represent in internationally acceptable English (Standard English) that is grammatical, fluent, mutually intelligible and appropriate for different purposes, audiences, contexts and cultures.
- Understand and use internationally acceptable English (Standard English) grammar and vocabulary accurately and appropriately as well as understand how speakers/writers put words together and use language to communicate meaning and achieve impact.

Scheme of Assessment

Paper	Description	Marks	Weighting (%)	Duration
1	Writing	70	30	1 h 20 min
2	Language Use and Comprehension	60	40	1 h 20 min
3	Listening	20	10	45 min
4	Oral Communication	40	20	20 min

Subject Content

Paper 1 Writing

Section A: Editing

Candidates edit grammatical errors in a given text.

Section B: Situational Writing

Candidates write a text of at least 180 words. A stimulus text, which may include visuals, will be provided.

Section C : Continuous Writing

Candidates write a text of at least 120 words on one of two topics set.

Paper 2 Language Use and Comprehension

Section A: Language Use

Part 1: Modified Cloze I

Candidates complete a cloze passage testing vocabulary.

Part 2: Modified Cloze II

Candidates complete a cloze passage testing grammar.

Section B: Reading Comprehension

Part 3: Comprehension I

Candidates answer questions on a narrative or a recount.

Part 4: Comprehension II

Candidates answer questions on non-narrative texts, one of which includes visuals.

Paper 3 Listening

Candidates complete a variety of listening tasks.

Paper 4 Oral Communication

The two parts in this paper are not thematically linked.

Part 1: Reading Aloud

Candidates read aloud a short text, presented on a computer screen.

Part 2: Spoken Interaction

Candidates engage in a discussion with the Examiners on a topic based on a visual stimulus, in the form of a video clip.

Additional Information

Students are encouraged to build up their store of vocabulary and appropriate expressions, in order to communicate effectively in both speaking and writing. They can do so by engaging in the school's Upper Sec Reading Programme, and taking the initiative to read beyond what is shared in the classrooms through online publications like The Straits Times and Channel News Asia.

Entry Requirement

N.A.

Subject	Mathematics Syllabus T
Subject Code	4046
Stream	Normal Technical

The N-level Mathematics syllabus aims to enable students to:

- acquire mathematical concepts and skills for real life and to support learning in other subjects;
- develop thinking, reasoning, communication, application and metacognitive skills through a mathematical approach to problem solving;
- connect ideas within mathematics and between mathematics and other subjects through application of mathematics; and
- build confidence in using mathematics and appreciate its value in making informed decisions in real life.

Students will be solving problems in real-world contexts as part of the learning experiences of every student. These experiences give students the opportunities to apply the concepts and skills that they have learnt and to appreciate the value of and develop an interest in mathematics. Problems in real-world contexts can be included in every strand and level, and may require concepts and skills from more than one strand.

Students are expected to be familiar with the following contexts and solve problems based on these contexts over the four years of their secondary education:

- In everyday life, including time schedules (including 24-hour clock) and time zone variation, transport schedules, sports and games, recipes, floor plans, profit and loss (exclude use of the terms 'percentage profit' and 'percentage loss'), etc.
- In personal and household finance, including simple and compound interest, taxation, instalments, utilities bills, money exchange, etc.
- In interpreting and analysing data from tables and graphs (exclude distance-time and speed-time graphs)

The list above is by no means exhaustive or exclusive.

Through the process of solving such problems, students will experience all or part of the mathematical modelling process. This includes:

- formulating the problem, including making suitable assumptions and simplifications;
- making sense of and discussing data, including real data presented as graphs and tables;
- selecting and applying the appropriate concepts and skills to solve the problem; and
- interpreting the mathematical solutions in the context of the problem.

Scheme of Assessment

N(T)-Level Mathematics (First Year of Examination -2023)

PAPER	DURATION	DESCRIPTION	MARKS	WEIGHTING
Paper 1	1h 30min	There will be 11–13 short questions carrying 2–4 marks, largely free from context, testing more on fundamental concepts and skills, followed by 2 longer questions carrying 6–8 marks, developed around a context. Candidates are required to answer all questions which will cover topics from the following strands Number and Algebra Geometry and Measurement Real-World Contexts related to Number and Algebra and Geometry and Measurement	50	50%
Paper 2	1h 30min	There will be 11–13 short questions carrying 2–4 marks, largely free from context, testing more on fundamental concepts and skills, followed by 2 longer questions carrying 6–8 marks, developed around a context. Candidates are required to answer all questions which will cover topics from the following strands Number and Algebra Statistics and Probability Real-World Contexts related to Number and Algebra and Statistics and Probability	50	50%

Subject Content

The concepts and skills covered in the syllabus are organised along 3 content strands. The development of processes, metacognition and attitudes are embedded in the learning experiences that are associated with the content.

	Concept and Skills			
Number and Algebra	Geometry and Measurement	Statistics and Probability		
Learning Experiences				
(Processes, Metacognition and Attitudes)				

Additional Information

- Students who have attained distinction in Math may be offered N(A)-Level Mathematics.

Entry Requirement

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Subject	Science
Subject Code	5148
Stream	NT

The Aims of the syllabus are to:

- 1. develop 21st century competencies in students which would enable them to
- 1.1 apply critical and inventive thinking to identify and solve problems
- 1.2 communicate and collaborate with others effectively
- 1.3 show care and concern for people and the environment.
- 2. guide students in acquiring knowledge, skills and values for application in their daily lives such that they
- 2.1 are motivated to learn Science through contextualised and hands-on learning
- 2.2 become confident citizens who are able to make sound decisions tapping on Science and technology
- 2.3 develop safe and ethical practices
- 2.4 understand the use of ICT and appropriate tools for scientific inquiry and analysis of issues.
- 3. prepare students for future learning and work such that they
- 3.1 become lifelong and motivated learners
- 3.2 develop skills which are useful and relevant for them to be contributing citizens.

Scheme of Assessment

PAPER	DURATION	DESCRIPTION	MARKS	WEIGHTING
1	1 hr 15m	E-Examination Multiple choice, selected response, short-answer and structured	50	50%
2	1h	Short-answer and structured	50	50%

Subject Content

Machines Around Us

- 1. Energy
- 2. Electricity
- 3. Wave
- 4. Effects of Forces

Food Matters

- 1. Sources of Food
- 2. Food Chemistry

3. Food Safety
Our Body and Health 1. Staying Healthy 2. Digesting 3. Breathing 4. Blood Circulation
Additional Information
-
Entry Requirement

Subject	Computer Applications
Subject Code	7018 (N Level)
Stream	Normal Technical

Aims of the Syllabus

Through the CPA curriculum, students learn to use various software applications as well as programming concepts. Students also gain awareness of the ethical, legal and security issues relating to the use of computers. Specifically, the aims of the syllabus are to:

- Acquire skills in using a variety of computer application software and hardware to accomplish tasks and communicate ideas;
- appreciate the ethical, legal and security issues relating to the use of computers and ICT in society;
- Recognize the impact of ICT on society and people; and
- Develop basic computational thinking and problem-solving skills.

Curriculum Framework

The design of the 2019 CPA syllabus is guided by the Computing Curriculum Framework which was revised in 2017. See Figure 1. It consists of the following:

- Vision statement for computing education
- Dimensions of computing
- Core Concepts of computing
- Components of computational thinking (CT)
- Practices of computing practitioners and professionals

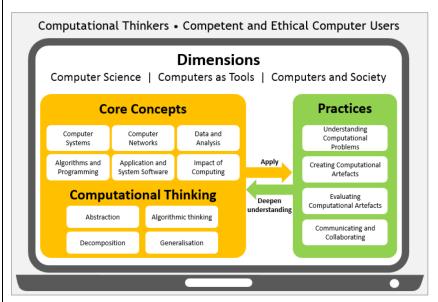


Figure 1: Computing Curriculum Framework (2017)

Scheme of Assessment

Summary of details for each paper:

Paper	Mode	Duration	Weighting	Marks	Format	Modules Assessed
1	Written	1 h 15 min	30%	20	Section A:	All the six
					20 MCQ	modules
				40	Section B:	All the six
					Variable no. of Short-	modules
					Structured Questions	
					(SSQ)	
2	Practical	1 h 30 min	35%	70	3 related tasks	MEL, DOP,
						IMC
3	Practical	1 h 30 min	35%	70	3 tasks	MEL, SST,
						AGM

Subject Content

Overview of Content

This syllabus consists of six modules: Computer Fundamentals, Media Elements, Document Processing, Spreadsheets, Interactive Multimedia Communication and Animation and Game Making. The overview of the content is shown below:

Module	Topics	
1. Computer Fundamentals (CPF)	1.1 Computer systems	
	1.2 Responsible use of computers	
	1.3 Computer networks and communication	
	1.4 Impact of ICT	
2. Media Elements (MEL)	2.1 Vector graphics	
	2.2 Raster graphics	
	2.3 Audio and video	
3. Document Processing (DOP)	3.1 Body text	
	3.2 Page properties	
	3.3 Graphics and text boxes	
	3.4 Working with tables	
4. Spreadsheets (SST)	4.1 Data display	
	4.2 Data processing	
	4.3 Data validation and analysis	
5. Interactive Multimedia	5.1 Components and applications of interactive	
Communication (IMC)	multimedia	
	5.2 Storyboarding	
	5.3 Creation of interactive slide presentations	
6. Animation and Game Making (AGM)	6.1 Visual programming language	
	6.2 Planning	
	6.3 Programming and debugging	
	6.4 Documentation	

Additional Information	
-	
Entry Requirement	
-	

Subject	Normal (Technical) Music
Subject Code	6129
Stream	Normal Technical

The Normal (Technical) Music syllabus is designed to provide students with a broad-based music education and a foundation to enable them to further their interest in music and sound related areas. It provides students with authentic hands-on learning experiences and exposure to a range of music genres and context, with music technology being an integral part of learning. To better align to the competencies required in the music industry, core musical skills such as listening, performing and creating (arranging, composing and producing) are intentionally crafted into the syllabus, while meeting the diverse musical interests and strengths of individuals and building the foundation to enable progression towards post-secondary studies in relevant areas.

Scheme of Assessment

The scheme of assessment is as follows:

Assessment Objectives	Papers Paper 1: Paper 2: Coursework		Total AO Weighting
(AO)			
Listening	40%	-	40%
Performing & Creating	-	60%	60%
Total	40%	60%	100%

Summary of Details for Paper 1 & 2

Paper	Format	Description	Duration	Weighting	Marks
1	Written Paper	Paper A Listening , Multiple Choice Questions (MCQs)	1 Hour	20%	40
		Part B: Listening Short Answer Questions (SAQs)		20%	
2	Coursewor k	Task 1: Creating & Performing	5 months, 30 hours of	40%	60
		Task 2: Creating & Evaluating	supervision time	20%	
Total	1			100%	100

Subject Content

Area of Study	
AoS1	Popular Music from 2000 onwards, focusing on the following genres: 1.1. Pop 1.2. Rock 1.3. R&B 1.4. Electronic Dance Remix
AoS2	Western Classical Music, focusing on the following genre: 2.1. Programme Music
AoS3	Music for Film and Television, focusing on the following musical conventions: 3.1. Emotive Music Cues 3.2. Action Music Cues
AoS4	Music from Local Cultures, focusing on the following Music Traditions in Singapore 4.1. Malay Ensemble Music 4.2. Chinese Ensemble Music 4.3. Indian Ensemble Music

Entry Requirement

Student will have to sit for an aptitude test for music, where they should be able to

- Play through any song on any instrument for the duration of the whole song
- Hear the difference between a high and low note
- Hear the difference(s) in differing rhythms

Subject	Retail Operations
Subject Code	A301
Stream	Normal Technical

Retail Operations (RO) aims to equip students with the basic knowledge, skills and values relevant for employment in small, medium to large retail establishments. It covers the functional skills and knowledge such as:

- Selling products and services
- Providing customer service
- Handling and displaying merchandise
- Managing stock inventory
- Performing cashier duties and after-sales service

Students will have opportunities to practise retailing skills in simulated retail settings where a service-oriented mind-set, effective communication skills and teamwork - qualities valued by today's employers - would be developed. There will be strong emphasis on hands-on learning and practical skills training, and developing professionalism as a retail service provider.

Scheme of Assessment

The assessment weighting for each paper is shown in Table 1

Table 1: Assessment Modes and Weightings

Paper	Mode	Duration	Marks	Weighting
1	Written Examination	1 Hr	30	30%
2	Practical Examination - Handling Retail Operations	30 mins	110	30%
3	Practical Examination - Demonstrate Selling Skills	15 mins	120	40%

Candidates will be required to attempt all three compulsory papers:

- Written Examination Paper 1
- Practical Examination
 - Paper 2: Handling Retail Operations
 - Paper 3: Selling and Interacting with Customers

Table 2: Assessment Timeline			
Paper	Time Frame		
Paper 2 Practical Examination - Handling Retail Operations	Mid Sept of Sec 3		
Paper 3 Practical Examination - Demonstrate Selling Skills	Mid Sept of Sec 4		
Paper 1 Written Examination	Mid Oct of Sec 4		

Subject Content

Syllabus Content

- 1. Handling Retail Operations
- 2. Understanding types of retail stores
- 3. Performing Housekeeping
- 4. Receiving and Storing Merchandise
- 5. Tagging Merchandise
- 6. Replenishing Merchandise
- 7. Performing Cashier Duties
- 8. Maintain a Professional Image
- 9. Identify Customer Needs
- 10. Selling Products and Services
- 11. Pitching Sales
- 12. Communicate Effectively with Customers
- 13. Provide Customer Service
- 14. Perform Service Recovery

Entry Requirement

Student should be comfortable in communicating with others.

Subject	Art
Subject Code	6128
Stream	Normal Technical

Aims of the N(T) Art Syllabus

- Foster self-confidence and a sense of achievement
- Nurture a spirit of exploration, inventive thinking and creative expression
- Cultivate an awareness and appreciation of art to make informed responses to works
- Develop a keen interest and build a foundation in art for further educational/professional pursuit.

Subject Content (Learning Outcomes)

Three big ideas form the foundations of the N(T) Art Syllabus which frames the three learning domains: **PERCEIVE, COMMUNICATE** and **APPRECIATE**.

Learning Outcomes

- Gather and record information from observation and personal experiences
- Generate and present ideas using visual images
- Explore materials, techniques and technologies in art
- Select appropriate means to express their ideas
- Apply art elements and design principles in their artworks from the study of the works of others
- Respond to their art and art making verbally
- Recognise their strengths in art and take responsibility for their own learning
- Demonstrate awareness of educational and career pathways in art-related fields

Examination Requirements

Candidates taking the GCE N(T)-Level Art Syllabus Examination will be required to offer:

Paper 1: Art Task (40%)

One task accompanied with a visual stimulus will be offered **five** weeks before the commencement of the N(T)-Level examination. Within the task, **three** product outcomes will be offered. Students must select **one product** to respond in relation to the task and visual stimulus given. Students must keep their investigation and development between **three to five** A3 sheets of paper to show their ideas/concepts. The final solution is executed on paper of A3 size during the examination. Each student will submit the A3 size sheets for the ideas/concepts development and the final solution at the end of the examination.

Paper 2: Portfolio (60%)

This paper consists of three parts.

PART A	PART B	PART C
Digital Journal	Art and Design Work	Personal Response
Each work must be	Each Student is to submit two	Evaluation of the students's
accompanied with a digital	works. One Fine Art submission	ability to remain engaged and

journal of not more than five	and one Design submission.	to take responsibility for the
screens for submission.	Each work must not exceed	completion of the Portfolio
Sketches, paintings, images	60x40cm or weigh more than	examination (Part A and Part
and/or short audio-visual	15 kg.	B).
recordings must be included.		

Submission of the Portfolio will be in the month of May of the examination year.

Scheme of Assessment

Paper 1: Art Task

The four assessment domains applied to the Art Task paper are:

- 1. Investigation and Development of a Solution (25 marks)
- 2. Aesthetic/Design Qualities (25 marks)
- 3. Visual Presentation (25 marks)
- 4. Personal Response (25 marks)

Paper 2: Portfolio

The five assessment domains applied to the Portfolio paper are:

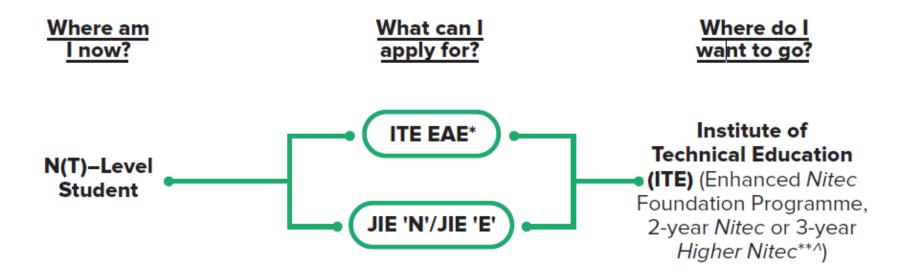
- 1. Gather Information to Communicate Ideas/Concepts (10 marks)
- 2. Develop Information to Communicate Ideas/Concepts (20 marks)
- 3. Aesthetic/Design Qualities (20 marks)
- 4. Control of Materials and Technical Processes (40 marks)
- 5. Personal Response (10 marks)

Entry Requirement

N.A

Part 3: Information on Post-secondary education

Part 3: Information on Further Education



^{*}Students can apply through these admissions exercises before their examinations.

^{**}Certain Nitec and Higher Nitec courses are available in traineeship mode. For more information on applying to these courses, you can visit https://www.ite.edu.sg/admissions/traineeship

[^]There are eleven 3-year Higher Nitec courses available for AY2023

Part 3: Information on Post-secondary education [Normal Technical]

Admission to ITE

 Admission is merit-based and posting to a course is based on aggregate of best 4 GCE 'N' Level subjects, including bonus points where applicable and is subjected to availability of vacancies. A lower aggregate point is indicative of better performance. Selected courses will require applicants to attend interview/aptitude test.

For Example

ITE	Course	Aggregate (based on best 4 subjects)
East	Nitec in Applied Food Science	9
	Nitec in Nursing	15
Central	Nitec in Business Services	8
	Higher Nitec in Sports Management (3 years)	6
West	Nitec in Retail Services	11
	Nitec in Electrical Technology (Lighting & Sound)	15

- See https://www.moe.gov.sg/coursefinder?journey=ITE for previous year cut-off points.
- N(T) students can apply for the two-year Nitec courses or three-year Higher Nitec courses via the following admission exercises:
 - Joint Intake Exercise 'N' (JIE 'N')
 - ITE Early Admissions Exercise (ITE EAE)
- N(T) students who have completed their N-Level examinations with 0 or 1 passes can apply for the 3-Year Nitec course with Enhanced Nitec Foundation Programme via the following admission exercise:
 - Joint Intake Exercise 'E' (JIE 'E')
- The computation of ITE aggregate points for Normal (Technical) subject grades for merit-based ranking for admission to full-time Nitec/Higher Nitec courses, is shown in the table below:
- Computation of ITE Aggregate Points for Normal (Technical) Subjects

Normal (Technical) Grade	ITE Aggregate Points
A	1
В	2
С	3
D	4
E	5

Part 4: Contact Us

If you have any further enquiries, feel free to write in to the following:

Name / Designation	Email address
Mr Tay Hiang Soon Vice-Principal (Lower Secondary)	TAY_Hiang_Soon@schools.gov.sg
Mr Tan Hong Peng Lower Sec Year Head	tan_hong_peng@schools.gov.sg
Mr P Tamil Selvam Sec 2 Year Head	p_tamil_selvam@schools.gov.sg
Ms Teoh Fan Yun Senior Education & Career Guidance Counsellor	teoh_fan_yun@schools.gov.sg