

Secondary 3 Subject Combination 2019

Secondary 3 subject combinations are decided based on students' interests, strengths and resources of the school. They take into account the subjects required by students to be admitted to post-secondary institutions.

Tentative Sec 3 Express Subject Combination 2019

A1	A2	B	C	D
English				
Mother Tongue				
Mathematics				
Humanities (Social Studies, Geography) or Humanities (Social Studies, History)				
Add Math	Add Math	Add Math	POA	Literature
Chemistry	Chemistry	Science (Phy, Chem) or Science (Chem, Bio)		
Physics	Physics or Biology	Lit / D&T / F&N / Art*		D&T / F&N / Art*
Biology	Literature			
8 Subjects	8 Subjects	7 Subjects	7 Subjects	7 Subjects

Tentative Sec 3 Normal (Academic) Subject Combination 2019

English
Mother Tongue
Mathematics
Humanities (Social Studies, Geography) or Humanities (Social Studies, History)
Science (Physics, Chemistry)
D&T / F&N / POA / Art

Allocation of subjects

Based on:

- student's choice
- merit

Students are ranked according to overall marks attained in Sec 2. There will be double weighting for English and Mathematics.

***Elective Subjects will only be offered if there is a minimum of 15 students to make up a class.**

Important Dates

Period	Event
26 Oct (Fri)	<ul style="list-style-type: none"> • Sec 2 Meet-The-Parents session • Information on available options (with eligibility) given to students
29 – 30 Oct (Mon – Tue)	<ul style="list-style-type: none"> • Students to enter options in AsknLearn (LMS) portal • School laptops / PCs / printers to be set up for students without home PCs, printers or internet access • Option forms to be printed and signed by parents
31 Oct (Wed)	<ul style="list-style-type: none"> • Selection test for D&T and Art
31 Oct – 2 Nov (Wed - Fri)	<ul style="list-style-type: none"> • Signed option forms to be returned to school
13 Nov (Tue)	<ul style="list-style-type: none"> • Release of posting results via <ul style="list-style-type: none"> ➤ notice board at school foyer ➤ AsknLearn website (student login required)
13 – 14 Nov (Tue – Wed)	<ul style="list-style-type: none"> • Submission of appeals through General Office
16 Nov (Fri)	<ul style="list-style-type: none"> • Release of results of appeal cases

GEOGRAPHY (for Exp and NA students)

<p>Description</p> <p>Geography emphasizes the integrative study of physical and human environments to enable students to gain a better understanding of their own space and other parts of the world.</p> <p>It also focuses on the interconnectedness among groups of people, and between people and their environment. The Geography student can expect to acquire a wide range of knowledge and skills to understand and explain physical and human phenomena, and other contemporary environmental and social issues that occur in different places and cultures.</p>
<p>Assessment Format</p> <p>O and N Levels 13% Geographical Investigation 37% Structured essay (2 Questions)</p>
<p>Pre-Requisite</p> <p>A pass in lower secondary Geography</p>
<p>For more information, please contact</p> <p>Mrs Agnes Tan, HOD (Humanities), 62927616 ext 7442, teo_siew_kheng@moe.edu.sg</p>

HISTORY (for Exp and NA students)**Description**

The history syllabus looks at the making of the contemporary world. For students to be effective citizens and participants in the 21st century, students need to understand how the present world system came into being, and the inter-connectedness of nation-states and people.

History students will acquire not just conceptual tools such as balance of power, hegemony, geopolitics and nationalism, but also the historical thinking skills.

Assessment Format**O and N Levels**

30% Source-Based Case Study

20% Structured essay

Pre-Requisite

A pass in lower secondary History

For more information, please contact

Mrs Agnes Tan, HOD (Humanities), 62927616 ext 7442, teo_siew_kheng@moe.edu.sg

PRINCIPLES OF ACCOUNTS (for Exp and NA students)**Description**

Principles of Accounts is designed to provide students with a meaningful basic introduction to financial accounting and to develop an appreciation of the discipline of accounting. It is grounded in preparing, communicating and using financial information, and appreciating the need for ethical conduct. The subject places emphasis on the understanding and application of accounting knowledge to develop lifelong skills and values that will be of value in the increasingly complex world of business.

Assessment Format (O Level)

40% Paper 1 (3-4 structured questions)

60% Paper 2 (4 structured questions, including 1 question on the preparation of financial statements)

Assessment Format (N Level)

40% Paper 1 (3-4 structured questions)

60% Paper 2 (2 structured questions, including 1 question on the preparation of financial statements)

Pre-Requisite

A pass in Mathematics at Sec 2

For more information, please contact

Mrs Loh Choy Fong, HOD (Mathematics), 62927616 ext 7441, hoy_choy_fong@moe.edu.sg

ADDITIONAL MATHEMATICS (for Exp students)**Description**

The Additional Mathematics content is organised into three strands, namely, Algebra, Geometry and Trigonometry, and Calculus. Besides conceptual understanding and skill proficiency explicated in the content strand, the development of process skills, namely, reasoning, communication and connections, thinking skills and heuristics, and applications and modelling are also emphasised.

The subject enables students to:

- acquire mathematical concepts and skills for higher studies in mathematics and to support learning in the other subjects, in particular, the sciences;
- develop thinking, reasoning and metacognitive skills through a mathematical approach to problem solving;
- connect ideas within mathematics and between mathematics and the sciences through applications of mathematics;
- appreciate the abstract nature and power of mathematics.

Assessment Format (O-Level)

44% Paper 1 (11 to 13 questions on fundamental skills and concepts)

56% Paper 2 (9 to 11 questions, may require integration of knowledge from different topics)

Pre-Requisite

Must obtain good pass, at least 60% (this benchmark is set by the school, and varies from year to year) for Sec 2 Mathematics

For more information, please contact

Mrs Loh Choy Fong, HOD (Mathematics), 62927616 ext 7441, hoy_choy_fong@moe.edu.sg

PURE LITERATURE (for Exp students only)**Description**

The aims of Literature are to enable students to:

- discover the joys of reading Literature and become aware of new ways of perceiving the world around them
- appreciate the aesthetic value of language
- engage personally with a variety of texts and draw connections between self, texts and the world in order to develop intellectual, emotional, socio-cultural, and global awareness
- articulate perceptive and analytical thinking when discussing and writing about literary texts
- explore how the elements of different genres function in literary works to achieve specific effects;
- appreciate the importance of the contexts in which literary texts are written and understood.

Assessment Format

50% Prose and Unseen Text
50% Drama

Pre-Requisite

A pass in English Language and Literature at Sec 2

For more information, please contact

Mr Glenn Tan, HOD (English), 62927616 ext 7475, tan_cheng_hai@moe.edu.sg

PURE SCIENCES – BIOLOGY, CHEMISTRY, PHYSICS (for Exp students only)

Description

The Pure Biology syllabus is designed to have less emphasis on factual materials, but a much greater emphasis on the understanding and application of scientific concepts and principles. This approach has been adopted in recognition of the need for students to develop skills that will be of long-term value in an increasingly complex and globalised world, rather than focusing on large quantities of factual material, which may have only short-term relevance. The key themes in the syllabus include Principles of Biology, Maintenance and Regulation of Life Processes, Continuity of Life, and Man and His Environment.

The Pure Chemistry syllabus draws attention to:

- (i) the finite life of the world's resources and hence the need for recycling and conservation
- (ii) economic considerations in the chemical industry, such as the availability and cost of raw materials and energy
- (iii) the social, environmental, health and safety issues relating to the chemical industry
- (iv) the importance of chemicals in industry and in everyday life.

The key sections in the syllabus include Experimental Chemistry, Atomic Structure and Stoichiometry, Chemistry of Reactions, Periodicity, Atmosphere and Organic Chemistry.

The Pure Physics syllabus provides students with a coherent understanding of energy, matter, and their interrelationships. It focuses on investigating natural phenomena and then applying patterns, models (including mathematical ones), principles, theories and laws to explain the physical behaviour of the universe. The theories and concepts presented in this syllabus belong to a branch of physics commonly referred to as classical physics. Modern physics, developed to explain the quantum properties at the atomic and sub-atomic level, is built on knowledge of these classical theories and concepts. The key topics in the syllabus include Newtonian Mechanics, Thermal Physics, Waves, and Electricity and Magnetism.

For more information on the pure science syllabuses, please refer to the SEAB website at www.seab.gov.sg.

Assessment Format

Paper	Type of Paper	Duration	Marks	Weighting
1	Multiple Choice	1 h	40	30 %
2	Structured and Free Response	1 h 45 min	80	50 %
3	End-of-Course Practical Assessment	1 h 50 min	40	20 %

The End-of-Course Practical Assessment will be conducted to assess candidates' competency and mastery in experimental skills and investigations. The Practical Assessment will focus on the following skill sets:

- MMO – Manipulation, Measurement and Observation
- PDO – Presentation of Data and Observation
- ACE – Analysis, Conclusions and Evaluation
- P – Planning

Pre-Requisite

Must obtain a good pass, at least 70% (this benchmark is set by the school, and varies from year to year) for Sec 2 Science, Mathematics and English

For more information, please contact

Mr Teo Cheng Yap, HOD (Science), 62927616, teo_cheng_yap@moe.edu.sg

DESIGN AND TECHNOLOGY (for Exp and NA students)**Description**

The aims of the Design & Technology syllabus are to:

- foster positive values and develop dispositions for enterprise, creativity and innovation through research and exploration, idea conceptualisation and development, communication, working with materials and tools in response to needs identified;
- harness their innate curiosity and ability to create through design-and-make activities;
- develop the quality of tenacity through continuous refinement of their ideas towards a viable solution within a given timeframe;
- exercise judgments of an aesthetic, technical and economic nature;
- develop an awareness of design in social, cultural and environmental areas;
- acquire knowledge and skills beyond that as stipulated in the syllabus through the contexts of the design-and-make activities.

Assessment Format (O and N levels)

70% Course Work (Design Journal, three A2-size Presentation Boards, Artefact)
30% Written Exam

Pre-Requisite

Good sketching skills. Interested students will need to sit for a test.

For more information, please contact

Mrs Sharon Wee, HOD (Craft and Tech), 62927616 ext 7467, neo_sharon@moe.edu.sg

FOOD AND NUTRITION (for Exp and NA students)

<p>Description</p> <p>The aims of the Food and Nutrition syllabus are to:</p> <ul style="list-style-type: none">• develop candidates' understanding of the concepts of nutrition and meal planning• develop candidates' understanding of the link between diet and health• introduce the principles of food science• equip candidates with the knowledge and skills to make informed decisions concerning food and nutrition
<p>Assessment Format</p> <p>O Levels 60% Course Work [50 pages word processed A4 sheets (Food Science experiment included)] 40% Written Exam (100 marks)</p> <p>N Levels 60% Course Work (30 pages word processed A4 sheets) 40% Written Exam (80 marks)</p>
<p>Pre-Requisite</p> <p>Pass in English Language and Food & Consumer Education at Secondary Two level</p>
<p>For more information, please contact</p> <p>Mrs Sharon Wee, HOD (Craft and Tech), 62927616 ext 7467, neo_sharon@moe.edu.sg</p>

ART (for Exp and NA students)**Description**

The aims of the Art syllabus are to:

- nurture an informed awareness and appreciation of the visual arts;
- enhance ability to identify and solve problems creatively in visual and tactile forms;
- develop competency in the use of art and design principles, materials and processes;
- foster self-confidence and a sense of achievement through the practice of the visual arts;
- cultivate an inquiring mind, a spirit of experimentation and a passion for the visual arts.

Assessment Format**O levels:**

60% Course Work (Not more than **8** A2 sheets of Preparatory studies and one final work)

40% Drawing and Painting (3 to 5 A3 sheets of Preparatory studies)

N Levels:

60% Course Work (Not more than **5** A2 sheets of Preparatory studies and one final work)

40% Drawing & Painting (3 to 5 A3 sheets of Preparatory studies)

Pre-Requisite

Students must have good drawing skills. Interested students will need to sit for a test on drawing.

For more information, please contact

Mrs Sharon Wee, HOD (Craft and Tech), 62927616 ext 7467, neo_sharon@moe.edu.sg

Admission Criteria for Post-Secondary Institutions**Junior College**

L1R5 ≤ 20	
L1	First Language – English/ Higher Mother Tongue
R5	Relevant Subject 1 – Humanities Relevant Subject 2 – Elementary/ Additional Mathematics/ Science Relevant Subject 3 – Humanities/ Mathematics/ Science Relevant Subject 4 – Any GCE 'O' Level subjects (except Religious Knowledge and CCA) Relevant Subject 5 - Any GCE 'O' Level subjects (except Religious Knowledge and CCA)

Millennia Institute

L1R4 ≤ 20	
L1	First Language – English/ Higher Mother Tongue
R4	Relevant Subject 1 – Humanities/ Elementary/ Additional Mathematics/ Science Relevant Subject 2 – Humanities/ Elementary/ Additional Mathematics/ Science Relevant Subject 3 – Any GCE 'O' Level subjects or CCA (except Religious Knowledge) Relevant Subject 4 - Any GCE 'O' Level subjects or CCA (except Religious Knowledge)

Polytechnic

ELR2B2 ≤ 26											
EL	English										
R2	Relevant Subject 1 Elementary / Additional Mathematics										
	Relevant Subject 2										
	<table border="1"> <thead> <tr> <th>Course</th> <th>Relevant Subject 2</th> </tr> </thead> <tbody> <tr> <td>Humanities</td> <td>Additional Mathematics / Art / MT / Combined Humanities / D&T / F&N / Literature / POA</td> </tr> <tr> <td>Business and Management</td> <td>Combined Humanities / Literature / POA / Art</td> </tr> <tr> <td>Applied Sciences / Engineering / Health Sciences / Info & Digital Technologies / Maritime Studies / Built Environment</td> <td>Pure Science / Combined Science / D&T / F&N</td> </tr> <tr> <td>Media & Design</td> <td>Pure Science / Combined Science / Art / Computer Studies / D&T / F&N</td> </tr> </tbody> </table>	Course	Relevant Subject 2	Humanities	Additional Mathematics / Art / MT / Combined Humanities / D&T / F&N / Literature / POA	Business and Management	Combined Humanities / Literature / POA / Art	Applied Sciences / Engineering / Health Sciences / Info & Digital Technologies / Maritime Studies / Built Environment	Pure Science / Combined Science / D&T / F&N	Media & Design	Pure Science / Combined Science / Art / Computer Studies / D&T / F&N
	Course	Relevant Subject 2									
	Humanities	Additional Mathematics / Art / MT / Combined Humanities / D&T / F&N / Literature / POA									
Business and Management	Combined Humanities / Literature / POA / Art										
Applied Sciences / Engineering / Health Sciences / Info & Digital Technologies / Maritime Studies / Built Environment	Pure Science / Combined Science / D&T / F&N										
Media & Design	Pure Science / Combined Science / Art / Computer Studies / D&T / F&N										
B2	Best 2 other subjects excluding CCA										

ITE Higher Nitec Courses

ELB4, ELR1B3 & ELR2B2 : For ITE Higher Nitec Courses					
Aggregate Type	ELB4-A Early Childhood Education / Beauty & Spa Management / Visual Merchandising / Leisure & Travel Operations / Passenger Services / Hospitality Operations	ELR1B3-B Business & Services / Design & Media		ELR2B2-C Applied Sciences / Electronics & Info-Comm Technology / Engineering / Space Design Technology	
EL	English	EL	English		EL
B4	Best 4 other subjects excluding CCA	R1	Elementary Math Additional Math POA	Elementary Math Additional Math	1st Group of Relevant Subjects
		B3	Best 3 other subjects excluding CCA	Science Computer Studies D&T	2nd Group of Relevant Subjects
				Best 2 other subjects excluding CCA	

Bonus Points Available (For O-Level holders)

S/No.	Type of Bonus Points	No. of Bonus Points Available	Maximum Bonus Points Allowable	
1	For students seeking admission to JC/Poly/ITE and with the following CCA grades: a. Grades of A1 - A2 b. Grades of B3 – C6	2 points 1 point	Limited to a maximum of <u>4 Bonus Points</u> only for these 4 sections.	Limited to a maximum of <u>6 Bonus Points</u> only.
2	For students seeking admission to JC/MI courses and with grades of A1 to C6 in both their first languages (i.e. English and a Higher Mother Tongue). This is provided that these choices come before any Poly/ITE choices.	2 points		
3	For students seeking admission to JC/MI courses and with grades of A1 to C6 in Malay/Chinese (Special Programme) (MSP/CSP) or Bahasa Indonesia (BI) as their third language. This is provided that these choices come before any Poly/ITE choices.	2 points		
4	For students from feeder schools if they choose their affiliated Junior College course(s) as their: a. 1 st choice, or b. 1 st and 2 nd choices.	2 points		
5	For students who had applied for the CLEP (Chinese Language Elective Programme) or MLEP (Malay Language Elective Programme) and have been selected for the programme.	2 points	2 Bonus Points	

Polytechnic Foundation Programme (PFP) (For N level holders)

The PFP is a one-year foundation programme for polytechnic-bound students offering a practice-oriented curriculum taught by polytechnic lecturers. PFP students are given provisional places in diploma programmes, subject to them passing all modules in the one-year PFP.

ELMAB3 ≤ 12 (with effect from 2019 PFP intake)	
EL	English must be ≤ 3
MA	Mathematics must be ≤ 3
B3	Best 3 other subjects excluding CCA. All subjects must be ≤ 3

ITE Direct Entry Scheme to Polytechnic Programme (DPP) (For N-Level holders)

Advantages of choosing DPP over Sec 5NA:

- (1) Direct entry to Higher Nitec, which is otherwise only available to O-Level holders.
- (2) Students assured of 1st or 2nd year place in related Polytechnic Diploma course, if they attain qualifying GPA scores.

ELMAB3 ≤ 19	
EL	English must be ≤ 4
MA	Mathematics must be ≤ 4
B3	Any 3 other subjects excluding CCA (minimum required grade of 5)

Progression to 5NA

ELMAB3 ≤ 19	
EL	English must be ≤ 5
MA	Mathematics must be ≤ 5
B3	Best 3 other subjects excluding CCA

The Singapore education journey

