

TEMASEK JUNIOR COLLEGE
INFOSHEET ON SUBJECT COMBINATIONS FOR JC1 2023
May 2022



This Infosheet outlines the JC subject combinations for 2023. Prospective applicants can take reference to it when deciding which JC to apply to. Note that there will be changes for subject combinations involving the subject Knowledge and Inquiry in 2024. The actual exercise to indicate your preferences for subject combination will be conducted after students are posted to the JC (i.e, around end Jan / early Feb 2024).

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Introduction: GCE A-LEVEL CURRICULUM

Temasek Junior College prepares students for the A-Level examinations at the end of the 2-year course.

Please refer to MOE's website for information on the GCE A-level curriculum:

<https://www.moe.gov.sg/post-secondary/a-level-curriculum-and-subject-syllabuses>

The **norm** for most JC students is to offer three H2 content-based subjects + one H1 content-based subject + GP + MTL + PW.

One of the four content-based subjects must be from a contrasting discipline; the contrasting subject can be a H1 or a H2 subject.

Project Work (PW) and General Paper (GP) are compulsory H1 subjects.

Students are not required to sit the H1 MTL Examination if they:

- Are exempted from MTL;
- Attained D7 or better in GCE O-Level Higher MTL;
- Offer H2 Mother Tongue Languages & Literature (MTLL) at JC2.

The number of units assigned to H1, H2, H3 subjects are as follows:

LEVEL	NO OF UNITS
H1	1
H2	2
H3	1

The total number of units for a chosen subject combination can range from a minimum of 10 units to a maximum of 12 units, including MTL.

MTL still contributes one unit towards the total number of units for a chosen subject combination even if a student does not offer H1 MTL.

All subject combinations must include one contrasting subject, taken at either H1 or H2 level.

THE EXPANDED CURRICULUM (FOUR H2 CONTENT-BASED SUBJECTS)

The expanded curriculum is made up of four H2 content-based subjects + GP + MTL + PW. The indicative cut-off point to offer the expanded curriculum is:

- For JAE students: L1R5 aggregate ≤ 9 (raw score);
- For IP students: GPA ≥ 3.25 ;
- Science-stream students must have offered 2 Science subjects + 2 Mathematics subjects at the O-Levels / IP4.

The expanded curriculum is suitable for students who have the ability and passion to extend their learning further. Students must be prepared to handle the increased academic workload and longer timetables in addition to the demands of the JC programme (CCAs, other enrichment programmes etc) throughout their two-year course.

Note: The expanded curriculum (4H2) is not a prerequisite for any university course, nor does it stand you any advantage in university admission compared to a 3H2 and 1H1 combination.

KNOWLEDGE AND INQUIRY

Students may offer H2 Knowledge & Inquiry (KI) in lieu of H1 GP as a **fourth** H2 subject.

JC1 KI students may offer up to five H2 subjects (inclusive of KI) until the end of JC1.

At the end of JC1, students will choose to convert to one of the following combinations in JC2:

- KI + three H2 content-based subjects + one H1 content-based subject,
- KI + three H2 content-based subjects,
- GP + four content-based subjects originally offered in JC1.

H3 SUBJECTS

Prerequisite: Students who wish to offer subjects at H3 levels in their JC2 year must offer those subjects at H2 level.

Details and eligibility criteria on the various H3 programmes will be given in the second half of the JC1 year. H3 is offered for the following subjects:

- Biology
- Chemistry
- Chinese Language and Literature
- Economics
- Geography
- History
- Literature in English
- Mathematics
- Music
- Physics

SUBJECT COMBINATION CHOICES

Science Stream

Subj Combi Code	PW and GP/KI			Content Subjects											
	PW	GP	KI	FM	CP	MA	CA	PA	BI	HA	GE	EC	LA	CLL	MU
SC 1.1	√	√				√	√	√		√					
SC 1.2	√	√				√	√	√			√				
SC 1.3	√	√				√	√	√				√			
SC 1.4	√	√				√	√	√					√		
SC 1.5	√	√				√	√	√						√	
SC 1.7	√	√				√	√	√							√
SC 1.1K	√		√			√	√	√		√					
SC 1.2K	√		√			√	√	√			√				
SC 1.3K	√		√			√	√	√				√			
SC 1.4K	√		√			√	√	√					√		
SC 2.1	√	√				√	√		√	√					
SC 2.2	√	√				√	√		√		√				
SC 2.3	√	√				√	√		√			√			
SC 2.4	√	√				√	√		√				√		
SC 2.5	√	√				√	√		√					√	
SC 2.7	√	√				√	√		√						√
SC 2.1K	√		√			√	√		√	√					
SC 2.2K	√		√			√	√		√		√				
SC 2.3K	√		√			√	√		√			√			
SC 2.4K	√		√			√	√		√				√		
SC 3.1	√	√		√		√		√				√			
SC 3.2	√	√		√		√		√						√	
SC 5.1	√	√			√	√		√				√			

Legend:

PW: Project Work

FM: Further Mathematics

CA: Chemistry

HA: History

LA: English Literature

GP: General Paper

CP: Computing

PA: Physics

GE: Geography

CLL: Chinese Language & Literature

KI: Knowledge and Inquiry

MA: Mathematics

BI: Biology

EC: Economics

MU: Music

Science Stream (Cross-Combination)

Subj Combi Code	PW and GP		Content Subjects						
	PW	GP	H2 MA	H2 CA	H2 PA	H2 HA	H2 GE	H2 CLL	H2/H1 EC
CC 1.1	√	√	√	√		√			√
CC 1.2	√	√	√	√			√		√
CC 1.3	√	√	√	√				√	√
CC 2.1	√	√	√		√	√			√
CC 2.2	√	√	√		√		√		√
CC 2.3	√	√	√		√			√	√

Note: Students taking Science Stream (Cross-Combination) will not be able to convert H2 MA, H2CA/PA, H2 HA/GE/CLL to H1 at a later stage.

Arts Stream

Subject Combi Code	PW and GP/KI			Content Subjects						
	PW	GP	KI	MA	HA	GE	EC	LA	CLL	MU
AR 1.1	√	√		√	√		√	√		
AR 1.2	√	√		√	√		√		√	
AR 1.5	√	√		√	√		√			√
AR 1.1K	√		√	√	√		√	√		
AR 2.1	√	√		√		√	√	√		
AR 2.2	√	√		√		√	√		√	
AR 2.5	√	√		√		√	√			√
AR 2.1K	√		√	√		√	√	√		
AR 5.2	√	√		√			√	√		√

Arts Stream (Cross-Combination)

Subj Combi Code	PW and GP		Content Subjects						
	PW	GP	H2 EC	H2 MA	H2 HA	H2 GE	H2 CLL	H1 CA	H1 PA
CC 3.1	√	√	√	√	√			√	
CC 3.2	√	√	√	√		√		√	
CC 3.3	√	√	√	√			√	√	
CC 4.1	√	√	√	√	√				√
CC 4.2	√	√	√	√		√			√
CC 4.3	√	√	√	√			√		√

Notes:

1. Students who do not qualify for the expanded curriculum must choose one of the four Content Subjects to be at H1 level.
2. The College may not offer a particular subject combination if the enrolment for that subject combination is fewer than 15 students, with the exception of KI, Further Mathematics, Computing and Music.
3. Students offering the following H2 subjects at the start of JC1 will not be able to convert these subjects to H1 at a later stage: Chinese Language and Literature, Computing, Further Mathematics, Geography, History and Music.
4. Students offering combinations which are less subscribed may experience time tables that are less compact (e.g. may end later).
5. Subject combinations CC 1.1, 1.2, 1.3, 2.1, 2.2, 2.3, and AR 5.2, are newly offered from 2023.

NOTES ON SUBJECTS

Students should take note of the prerequisites, assumed knowledge and indicative cut-off for the respective subjects shown in the tables below.

- Subject prerequisites are centrally set MOE requirements that students must fulfil in order to be eligible to offer the subject at the A-Level.
- Assumed knowledge refers to the set of content knowledge that students are expected to have learnt in advance, usually as part of a corresponding subject at O-Level, which teachers will build upon as part of the A-Level syllabus. **Students without the assumed knowledge may offer the subject but will be expected to bridge the knowledge gap during the course of study. Students will be expected to bridge the gap largely through self-study.**
- The indicative cut-off is derived from past years' allocation exercise.
- Additional interviews/ tests may be required for selected subjects.

KNOWLEDGE SKILLS

Subject	Short Name	Level Offered	Subject Code	Indicative Cut-off	Remarks
General Paper	GP	H1	8881		<ul style="list-style-type: none"> Compulsory subject
Knowledge and Inquiry	KI	H2	9759	<ul style="list-style-type: none"> L1R5 Raw Score ≤ 9 / GPA ≥ 3.25 <p>AND</p> <ul style="list-style-type: none"> B3 for O-Level English or C for Language Arts 	<ul style="list-style-type: none"> Students will have to pass a selection test and interview KI is offered in lieu of H1 GP as a fourth H2 subject KI students will be allowed to offer 5H2 content subjects until the end of JC1
Project Work	PW	H1	8808		<ul style="list-style-type: none"> Compulsory subject

LANGUAGES

Subject	Short Name	Level Offered	Subject Code	Indicative Cut-off	Remarks
Chinese Language	CL	H1	8655		<ul style="list-style-type: none"> Exemption from taking MTL is allowed if O-Level HMTL grade is at least D7
Malay Language	ML	H1	8656		<ul style="list-style-type: none"> Exemption from taking MTL is allowed if O-Level HMTL grade is at least D7
Tamil Language	TL	H1	8657		<ul style="list-style-type: none"> Exemption from taking MTL is allowed if O-Level HMTL grade is at least D7
Chinese B	CLB	-	8611		
Malay B	MLB	-	8613		
Tamil B	TLB	-	8614		
Chinese Language & Literature ¹	CLL2	H2	9575	<ul style="list-style-type: none"> A2 for O-level CL <p>OR</p> <ul style="list-style-type: none"> B3 for O-level HCL <p>OR</p> <ul style="list-style-type: none"> B4 for O-level HCL and B3 in Chinese Literature 	

¹ Can be used as a contrasting subject at H2 level

SCIENCES

Subject	Short Name	Level Offered	Subject Code	Indicative Cut-off	Remarks
Biology	BI2	H2	9744	<ul style="list-style-type: none"> • B3 for Pure Biology OR • C+ for Biology in IP4 OR • A2 for Combined Science (Biology) 	<ul style="list-style-type: none"> • Assumed Knowledge: O-level Biology as a single subject or as part of a balanced science course.
Biology	BI1	H1	8876	<ul style="list-style-type: none"> • C6 for Pure Biology / Combined Science (Biology) OR • C for Biology in IP4 	<ul style="list-style-type: none"> • Assumed Knowledge: O-level Biology as a single subject or as part of a balanced science course.
Chemistry	CA2	H2	9729	<ul style="list-style-type: none"> • B3 for Pure Chemistry OR • C+ for Chemistry in IP4 OR • A2 for Combined Science (Chemistry) 	<ul style="list-style-type: none"> • Assumed Knowledge: O-level Chemistry as a single subject or as part of a balanced science course.
Chemistry	CA1	H1	8873	<ul style="list-style-type: none"> • C6 for Pure Chemistry / Combined Science (Chemistry) OR • C for Chemistry in IP4 	<ul style="list-style-type: none"> • Assumed Knowledge: O-level Chemistry as a single subject or as part of a balanced science course.
Physics	PA2	H2	9749	<ul style="list-style-type: none"> • B3 for Pure Physics OR • C+ for Physics in IP4 OR • A2 for Combined Science (Physics) 	<ul style="list-style-type: none"> • Assumed Knowledge: O-level Physics as a single subject or as part of a balanced science course.
Physics	PA1	H1	8867	<ul style="list-style-type: none"> • C6 for Pure Physics / Combined Science (Physics) OR • C for Physics in IP4 	<ul style="list-style-type: none"> • Assumed Knowledge: O-level Physics as a single subject or as part of a balanced science course.

* Students offering two H2 Science subjects will typically have offered at least two Pure Science subjects at O-levels.

** Students who have offered Combined Science at O-levels will typically offer one Science at H2 level and one Science at H1 level.

MATHEMATICS AND COMPUTING

Subject	Short Name	Level Offered	Subject Code	Indicative Cut-off	Remarks
Mathematics	MA2	H2	9758	<ul style="list-style-type: none"> • C6 for both O-level Mathematics and Additional Mathematics OR <ul style="list-style-type: none"> • C for both IP Intermediate Mathematics and Advanced Mathematics 	<ul style="list-style-type: none"> • Assumed Knowledge: O- level Additional Mathematics
Mathematics	MA1	H1	8865		<ul style="list-style-type: none"> • Assumed Knowledge: O-level Mathematics
Further Mathematics	FM2	H2	9649	<ul style="list-style-type: none"> • A2 for both O-level Mathematics and Additional Mathematics OR <ul style="list-style-type: none"> • B+ for both IP Intermediate Mathematics and Advanced Mathematics 	<ul style="list-style-type: none"> • Prerequisites: Students must also offer H2 Mathematics • Students will have to pass a selection test
Computing	CP2	H2	9569	<ul style="list-style-type: none"> • A2 for both O-level Mathematics and Additional Mathematics OR <ul style="list-style-type: none"> • B+ for both IP Intermediate Mathematics and Advanced Mathematics 	<ul style="list-style-type: none"> • Students will have to pass a selection test

HUMANITIES AND THE ARTS

Subject	Short Name	Level Offered	Subject Code	Indicative Cut-off	Remarks
Economics	EC2	H2	9570		
Economics	EC1	H1	8843		
English Literature	LA2	H2	9509	<ul style="list-style-type: none"> • B3 in English Language at O-levels OR <ul style="list-style-type: none"> • B in Language Arts 	
English Literature	LA1	H1	8832	<ul style="list-style-type: none"> • B3 in English Language at O-levels OR <ul style="list-style-type: none"> • B in Language Arts 	
Geography	GE2	H2	9173		
Geography	GE1	H1	8834		
History	HA2	H2	To be confirmed based on new syllabus beginning 2023		
History	HA1	H1	To be confirmed based on new syllabus beginning 2023		
Music	MU2	H2	9753	<ul style="list-style-type: none"> • Offered Music or Higher Music at O-Levels and/or able to demonstrate adequate proficiency at performance and/or composition 	<ul style="list-style-type: none"> • Students will have to pass a selection test and audition • All successful applicants will be enrolled under the Music Elective Programme (MEP)

SPECIAL PROGRAMMES OFFERED IN TJC

- 1 **Music Elective Programme (MEP):** MEP students have to offer H2 Music as one of their examination subjects at A-Level. There is no H1 Music offered. Recipients of the Music Elective Scholarship (MES) have to offer H3 Music in JC2, while others who meet the college criteria are strongly encouraged to take up the subject. To qualify for this programme, the minimum qualifications are as follows:

- i. Students must obtain at least a pass in GCE O-level Music **AND/OR**
- ii. Students must pass the diagnostic test and audition.

Interested students will have to go through a written test (comprising listening, harmonic analysis and composition tasks), a practical audition (on their first instrument; a second instrument is optional), as well as a short interview. Students who have not taken O-Level Music can still apply for MEP.

MOE MES Scholarships

The Music Elective Scholarship (MES) is offered by the Ministry of Education to encourage academically able and musically talented students to pursue the rigorous music programme at H2 and H3 Levels. Each scholarship, valued at \$1000 per annum, with exemption from school fees, is tenable for 2 years subject to the scholar's satisfactory progress and performance at the end of JC1.

Applications are made online on the MOE website:

<https://beta.moe.gov.sg/fees-assistance-awards-scholarships/awards-scholarships/programme-scholarships-pre-u/>

- 2 **Chinese Language Elective Programme (CLEP):** Selection process will be carried out by MOE. All CLEP students must offer H2 Chinese Language and Literature (CLL). Applicants must have good results in the GCE O-Level Examination, obtaining at least:

Either

B3 in Higher Chinese (alternatively B4 in Higher Chinese and B3 in Chinese Literature);
OR

A2 in Chinese

OR

The equivalent of the above based on IP school internal assessment

MOE CLEP Scholarships

Students selected for the CLEP will be considered for the Chinese Language Elective (Chinese) Scholarships if they are Singapore Citizens. Each scholarship, valued at \$1000 per annum, with exemption from school fees, is tenable for 2 years subject to the scholar's satisfactory progress and performance at the end of JC1. Upon the release of the Joint Admissions Exercise (JAE) posting results, short-listed scholarship candidates will be invited for a selection interview.

Applications are made online on the MOE website:

<https://beta.moe.gov.sg/fees-assistance-awards-scholarships/awards-scholarships/programme-scholarships-pre-u/>

- 3 **Temasek Humanities Programme (THP):** The Temasek Humanities Programme aims to create leaders in the Humanities, embracing the spirit of inquiry to nurture thoughtful, independent and action-oriented navigators of an increasingly complex and fast-paced world. The programme is open to students who have displayed a strong passion and aptitude for the Humanities and runs for two academic years, from JC1 to JC2.

MOE Humanities Scholarships

The MOE Humanities Scholarship, valued at \$1000 per annum with exemption from school fees, is tenable for 2 years subject to the scholar's satisfactory progress at the end of JC1 and good conduct. To qualify, scholars must take English Literature and at least two other stipulated Humanities subjects at the H2 level. Their second Humanities subject can be Economics, History, Geography. The third Humanities subject can be Economics, History, Geography or Music (Music Elective Programme), Mother Tongue Language and Literature, or Foreign Languages [French/German/Japanese].

Applications are made online on the MOE website:

<https://beta.moe.gov.sg/fees-assistance-awards-scholarships/awards-scholarships/programme-scholarships-pre-u/>

TJC Arts Award

The TJC Arts Award, a one-time award valued at \$300, is given to incoming JC1 Arts students who have a raw L1R5 of 7, and who offer 4 H2 subjects. Of the 4 H2 subjects, 3 should be from the Humanities and the Arts. This award will be given in addition to the TJC Merit Award, which valued at \$800 and is given to any incoming JC1 student entering TJC with a raw L1R5 of 7.

All MOE Humanities Scholars and TJC Arts Award recipients are selected for THP, but THP is also open to all Arts students with a strong passion for the Humanities, who have excelled in their English Language and Humanities subjects and who are offering three H2 Humanities subjects. A selection interview will take place during the first few days of Orientation and selected students will be placed in the THP class.

- 4 **Temasek STEM Programme:** The Temasek STEM Programme aims to groom outstanding Mathematics and Science students to be leaders with 21st Century Competencies. Students can look forward to various exploratory and experiential STEM-based learning opportunities within and beyond classroom based on interests and aspirations, supported by a team of teacher mentors and external partnerships. The programme is open to students who have displayed a strong passion and aptitude for Mathematics and Sciences and runs for two academic years, from JC1 to JC2.

All students in the Science stream who have excelled in their Math and Science subjects will be invited to join the Temasek STEM Programme.