

TEMASEK JUNIOR COLLEGE
INFOSHEET ON SUBJECT COMBINATIONS FOR JC1 2025
Oct 2024



This Infosheet outlines the JC1 subject combinations offered in 2025. Prospective applicants can make reference to it when deciding which JC to apply to. The subject registration exercise will be conducted after students are posted to TJC (i.e, in Feb 2025). Read this Infosheet carefully.

Students should read this Infosheet bearing in mind the directions that MOE has set for JC education that take effect from the JC1 batch in 2024. Read this [LINK](#) for more information.

Contents

1. Introduction and Norm curriculum
2. Expanded curriculum
3. Computation of UAS
4. H3 subjects
5. Subject combination choices for
 - a. Science Stream
 - b. Arts Stream
6. Notes on subjects
7. Special programmes offered – MEP, CLEP, THP, STEM Programme

INTRODUCTION AND THE NORM CURRICULUM

Temasek Junior College prepares students for the A-Level examinations at the end of the 2-year course in the spirit of **“Learning for Life”, ie, with the recognition that both academic success AND ‘life skills’ are important to succeed in the future world.**

- **‘Life skills’** include: self-agency, sense of purpose, teamwork and 21st century skills (eg, Critical Thinking, Global Awareness) and Digital Literacy (eg, Data Competencies, Digital Knowledge Currency).
- These are learned **both** during academic studies and in student development activities such as CCAs and other school programmes.
- Moreover, we want our students to **enjoy the JC years** and learn to ably manage the challenges and stresses that you will face during their teenage years. These will increase your resilience and make you more ready for your future years.

Important Advice

We will support you to make this important subject combination decision:

- During Orientation, when we brief you about our subject combination offerings, we will also share about what happens after TJ – ie, University and Scholarship. We will ask Alumni (eg, those currently in university) to share how they made their choices.
- We will also arrange for conversations with teachers who will help you to consider your options.
- We will engage your parents about both the offerings we provide, as well as how they can support you to take ownership of your decision.

Most importantly, we will help you understand that TJC life is not purely / mainly about academic learning. In the fast-changing world, academic grades remain cardinal but 21st century skills, your sense of agency and hunger, are equally cardinal. **You will need to give time** to developing these through CCAs and other opt-in school programmes, so that you can put together a robust application when applying to the universities (note: all 7 local autonomous universities (NUS, NTU,

SMU, SUTD, SUSS, SIT and UAS) have moved / are moving towards admissions beyond grades. Google 'aptitude-based admissions' for more info.

Hence, **make this decision about subject combination wisely**, aware of the bigger picture of the many Life Skills you need to learn, of university admission and thus how you can realistically spend your JC life.

Please refer to MOE's website for information on the GCE A-level curriculum: [LINK](#) and [LINK](#).

All students must offer:

- a. H1 General Paper (GP), H1 Mother Tongue Language (MTL) and Project Work (PW), and
- b. Four content-based subjects, of which at least three must be offered at H2 (i.e. the fourth content-based subject may be offered at either H1 or H2).

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

Norm combination of subjects	
Three	H2 content-based subjects
One	H1 content-based subjects
H1 Mother Tongue Language (MTL)	
H1 General Paper (GP)	
Project Work (PW)	

At least one H1 or H2 subject is from a contrasting discipline

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

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 academic units (AU) assigned to H1, H2, H3 subjects are as follows:

LEVEL	NO. OF UNITS
H1	1
H2	2
H3	1

A student will offer 10 units to 12 units (AU), where each H2 subject carries 2 AU, each H1 subject carries 1 AU, and each H3 subject carries 1 AU.

Project Work (PW) is not considered a H1 subject but will continue to carry 1 AU. This was effected from the 2024 JC1 cohort (inclusive).

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.

THE EXPANDED CURRICULUM (FOUR H2 CONTENT-BASED SUBJECTS)

The expanded curriculum is made up of four H2 content-based subjects + GP + MTL + PW and 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 (eg, Chemistry H1 is 2.5 hours of lessons a week while a Chemistry H2 is 5 hours of lessons a week; there will be more material to learn and to do homework on) in addition to the demands of the JC programme (CCAs, other enrichment programmes etc) throughout their two-year course.

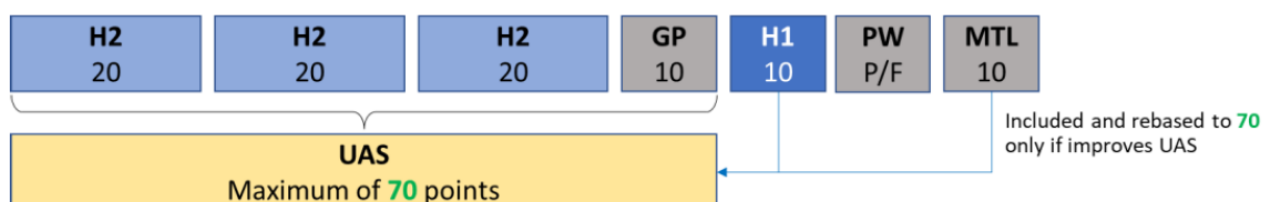
Students will be allowed to choose 4H2 content subjects during course registration if they meet the College Cut-off Point (COP). Eventual allocation of subject combination is Merit-based. If necessary, the College will consider the student's L1R5/GPA and strengths in relevant subjects to determine suitability and allocation.

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

COMPUTATION OF UNIVERSITY ADMISSION SCORE (UAS)

From Year of Admission 2026, the fourth content-based subject will be included in the computation of UAS only if it improves the UAS. This will allow JC/MI students room to choose their fourth content-based subject by interest without being overly concerned by examination grades. In addition, the change in Project Work (PW)'s grading to "Pass/Fail" means that it will be removed from the computation of UAS.¹ Hence, from 2026, the maximum UAS will be 70 points.

An illustration of the new computation method from 2026 is provided below:



Students taking Knowledge and Inquiry (KI) will have to offer 4 H2 content subjects throughout the 2 years of JC curriculum. Local autonomous universities will consider KI as a regular H2 subject in the computation of the UAS. KI will continue to be a contrasting subject for both Arts and Science stream students.

¹ Passing Project Work will be a prerequisite for local Autonomous University admission.

H3 SUBJECTS

H3 subjects provide the opportunity to study a subject at a deeper depth. H3 subjects are taken only in the JC2 year, after the foundations are built in JC1. MOE H3 subjects are to be offered with the corresponding H2 subjects. H3 programmes by MOE partners (NUS / NTU / SMU) will be offered only if there are sufficient students opting for them.

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

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

SUBJECT COMBINATION CHOICES

Students posted to the **Arts stream** must offer at least two H2 content-based subjects from the Humanities and the Arts group.

Students posted to the **Science stream** must offer at least two H2 content-based subjects from the Mathematics and Sciences group.

All the following options meet this criteria.

Arts Stream

Subject Combi Code	PW and GP		Content Subjects								
	PW	GP	MA	EC	HA	GE	LA	CLL	AR	MU	KI
AR 1.1	√	√	√	√	√		√				
AR 1.2	√	√	√	√	√			√			
AR 2.1	√	√	√	√		√	√				
AR 2.2	√	√	√	√		√		√			
AR 3.1	√	√	√	√	√				√		
AR 3.2	√	√	√	√		√			√		
AR 3.3	√	√	√	√			√		√		
AR 4.1	√	√	√	√	√					√	
AR 4.2	√	√	√	√		√				√	
AR 4.3	√	√	√	√			√			√	
AR 5.1	√	√	√	√	√						√
AR 5.2	√	√	√	√		√					√
AR 5.3	√	√	√	√			√				√

Subj Combi Code	PW and GP		Content Subjects						
	PW	GP	H2 EC	H2 MA	H2 HA	H2 GE	H2 CLL	H1 CA	H1 PA
AR 6.1	√	√	√	√	√			√	
AR 6.2	√	√	√	√		√		√	
AR 6.3	√	√	√	√			√	√	
AR 7.1	√	√	√	√	√				√
AR 7.2	√	√	√	√		√			√
AR 7.3	√	√	√	√			√		√

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

AR: Art MU: Music

Science Stream

Subj Combi Code	PW and GP		Content Subjects													
	PW	GP	FM	CP	MA	CA	PA	BI	HA	GE	EC	LA	CLL	AR	MU	KI
SC 1.1	√	√			√	√	√		√							
SC 1.2	√	√			√	√	√			√						
SC 1.3	√	√			√	√	√				√					
SC 1.4	√	√			√	√	√					√				
SC 1.5	√	√			√	√	√						√			
SC 1.6	√	√			√	√	√							√		
SC 1.7	√	√			√	√	√								√	
SC 1.8	√	√			√	√	√									√
SC 2.1	√	√			√	√		√	√							
SC 2.2	√	√			√	√		√		√						
SC 2.3	√	√			√	√		√			√					
SC 2.4	√	√			√	√		√				√				
SC 2.5	√	√			√	√		√					√			
SC 2.6	√	√			√	√		√						√		
SC 2.7	√	√			√	√		√							√	
SC 2.8	√	√			√	√		√								√
SC 3.1	√	√	√		√		√				√					
SC 3.2	√	√	√		√		√						√			
SC 4.1	√	√		√	√		√				√					

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
SC 5.1	√	√	√	√		√			√
SC 5.2	√	√	√	√			√		√
SC 5.3	√	√	√	√				√	√
SC 6.1	√	√	√		√	√			√
SC 6.2	√	√	√		√		√		√
SC 6.3	√	√	√		√			√	√

Note:

Students taking SC 5.1 to 6.3 will not be able to convert H2 MA, H2CA/PA, H2 HA/GE/CLL to H1 at a later stage.

Notes:

1. Students who apply for 4 H2s and are eventually allocated 3H2 1H1, will choose one of the four Content Subjects to be offered 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, Art 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, Art, Music and Knowledge & Inquiry.
4. Students offering combinations which are less subscribed should be prepared to experience timetables that are less compact (e.g. lessons more spread out, and the day may end later, even as late at 6pm).

NOTES ON SUBJECTS

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

- 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 exercises.
- 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		• Compulsory subject
Knowledge and Inquiry ²	KI	H2	9759	<ul style="list-style-type: none"> • L1R5 Raw Score ≤ 9 / GPA ≥ 3.25 AND <ul style="list-style-type: none"> • B3 for O-Level English or C for Language Arts 	• Students will have to pass a selection test and an interview
Project Work	PW	H1	8882		• Compulsory subject

LANGUAGES

Subject	Short Name	Level Offered	Subject Code	Indicative Cut-off	Remarks
Chinese Language	CL	H1	8655		• Exemption from taking MTL is allowed if O-Level HMTL grade is at least D7
Malay Language	ML	H1	8656		• Exemption from taking MTL is allowed if O-Level HMTL grade is at least D7
Tamil Language	TL	H1	8657		• 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 ²	CLL2	H2	9575	<ul style="list-style-type: none"> • A2 for O-level CL OR <ul style="list-style-type: none"> • B3 for O-level HCL OR <ul style="list-style-type: none"> • B4 for O-level HCL and B3 in Chinese Literature 	

² 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	9477	<ul style="list-style-type: none"> • B3 for Pure Biology OR <ul style="list-style-type: none"> • C+ for Biology in IP4 OR <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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	9476	<ul style="list-style-type: none"> • B3 for Pure Chemistry OR <ul style="list-style-type: none"> • C+ for Chemistry in IP4 OR <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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	9478	<ul style="list-style-type: none"> • B3 for Pure Physics OR <ul style="list-style-type: none"> • C+ for Physics in IP4 OR <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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	9539	<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	8841	<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	9174		
History	HA1	H1	8838		
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)
Art	AR2	H2	9750	<ul style="list-style-type: none"> • Offered Art at O-Levels and/or have a portfolio of a body of works 	<ul style="list-style-type: none"> • Students will have to pass a selection test

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 option. 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.

To find out more about the Music Elective Programme, you may also visit:
<https://www.moe.gov.sg/education-in-sg/our-programmes/mep-jc>

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.

For more information, please refer to:

<https://www.moe.gov.sg/financial-matters/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.

For more information, please refer to:

<https://www.moe.gov.sg/financial-matters/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 (HS)

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, Knowledge and Inquiry, Art or Music (Music Elective Programme), Mother Tongue Language and Literature, or Foreign Languages [French/German/Japanese]³.

All MOE Humanities Scholars 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.

For more information, please refer to:

<https://www.moe.gov.sg/financial-matters/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 admitted to TJC via JAE or DSA-JC who have a raw L1R5 of 7 or better, and offer 3 H2 subjects from the Humanities and the Arts. This award will be given in addition to other TJC scholarships and awards.

- 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.

Science Stream students who have displayed a strong passion and aptitude for Mathematics and Sciences will be invited to join the Temasek STEM Programme.

MOE Engineering & Tech Programme Scholarship (ETPS)

The Engineering and Tech Programme Scholarships are awarded to Pre-University students who have strong foundations in mathematics and science, with an inclination towards applied, interdisciplinary and hands-on learning.

³ The College may not offer a particular subject combination for students in the THP if the enrolment for that subject combination is fewer than 15 students.

Applicants must be Singapore Citizens who:

- Have done consistently well in school and obtained outstanding results in mathematics and science subjects (e.g. at least A2 for a mathematics and a science subject) at the GCE O-level examinations or equivalent based on the school's internal assessment.
- Have good co-curricular activities record, particularly in STEM areas.
- Have good conduct record.

Applicants must offer H2 Mathematics and at least one of the following subjects:

- H2 Physics
- H2 Computing
- H2 Further Mathematics

For more information, please refer to:

<https://www.moe.gov.sg/financial-matters/awards-scholarships/programme-scholarships-pre-u>

~ ~ ~