



East Spring Secondary School

Feb 2024



Pre-University Course

- 16 Junior Colleges offering the 2-year 'A' Level Programme and
- Millennia Institute offering 3-year 'A' Level Programme

Understanding the JC Curriculum

- 2-Year Programme
- Broad-based Curriculum
- Preparation for entry into university (More than 70% of A level graduates enter the local uni yearly.)
- 'A' Level certification

Understanding the JC Curriculum

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4 Content-Based Subjects

At least one must be contrasting



Contrasting Subjects



Compulsory Subjects

H1

General Paper

H1

Mother Tongue

P/F

Project Work

Content-Based Subjects

At least one must be contrasting

H2

H2

H2

H2

OR

H1

Contrasting Subjects



Humanities & Arts



Math & Science

JC Curriculum – **Subjects offered**

Maths & Sciences

H1 & H2

Mathematics

Biology

Chemistry

Physics

H2 only

Further

Mathematics*

Computing*

JC Curriculum – **Subjects offered**

H1 & H2

Economics
Geography
History
Literature in English
Art⁺
French⁺
German⁺
Japanese⁺

H2 only


China Studies in Chinese⁺
China Studies in English⁺
English Lang & Linguistics⁺
Translation (CL)⁺
Music⁺
Theatre Studies & Drama⁺
Lang & Lit in CL/ML/TL⁺

Humanities & the Arts

JC Curriculum – SEAB

← → ↻ seab.gov.sg/home/examinations/gce-a-level

A Singapore Government Agency Website [How to identify](#)

 Singapore Examinations and Assessment Board

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Examinations ▾

- PSLE
- GCE N(T)-Level
- GCE N(A)-Level
- GCE O-Level
- GCE A-Level**

GCE A-Level

The Singapore-Cambridge General Certificate of Education Advanced Level (GCE A-Level) examination is an annual national examination that is taken by school and private candidates, in Singapore.

More information about the GCE A-Level examination is available below.



Sample Subject Combinations



Science Student

	H1	H2
Mathematics		✓
Biology		✓
Chemistry		✓
Economics	✓	



Arts Student

	H1	H2
Economics		✓
History		✓
Literature in English	✓	
Mathematics		✓

Sample Combinations



Science? Arts?



	H1	H2
Mathematics		✓
Physics		✓
Economics		✓
Geography		✓

Computation of University Admission Score (AY2026)

H2 = 20 points

H1 = 10 points

3 H2 (Best performing) + H1 GP

Maximum total of 70

Computation of University Admission Score

$$3H2 + GP$$

(total of **70**)

$$3H2 + GP + H1 \text{ or } MT/HMT$$

(total of **80**, rebased to 70)

$$3H2 + GP + H1 + MT/HMT$$

(total of **90**, rebased to 70)

The most favourable score will be taken.

Computation of University Admission Score

The 4th subject/MT/Higer MT would be included in the calculation if it helps to improve the UAS.

Example:

Results: A(20) A(20) A(20) B(8.75)

GP: C (7.5)

3H2 + GP

total of **70**

$$20 \times 3 + 7.5 = \mathbf{67.5}$$

3H2 +GP + H1 or MT/HMT

total of **80, rebased to 70**

$$[(20 \times 3 + 8.75 + 7.5)/80] \times 70 \\ = \mathbf{66.7}$$

No help

Computation of University Admission Score

The 4th subject/MT/Higher MT would be included in the calculation if it helps to improve the UAS.

Example:

Results: A(20) A(20) A(20) A(10)

GP: C (7.5)

3H2 + GP

total of **70**

$$20 \times 3 + 7.5 = \mathbf{67.5}$$

3H2 + GP + H1 or MT/HMT

total of **80, rebased to 70**

$$[(60 + 10 + 7.5) / 80] \times 70 = \mathbf{67.8}$$

It helps!



Choosing a JC

Subject combinations

Different JCs may offer
different subject combinations

Subjects offered by NYJC in 2024

Sciences

Biology
Chemistry
Physics
Mathematics
Further Mathematics*
Computing*

Humanities

Art*
Language & Literature (Chinese, Malay)*
Economics
Geography
History
Literature in English
Translation*

*These subjects may not be offered in some JCs

Special Programmes

NYJC Special Programmes

- **Art Elective Programme (AEP)**
- **Language Elective Programme (Chinese) (CLEP)**
- MOE Scholarships of \$1k each year
- Variety of activities to complement their classroom learning
- Overseas Immersion Trips

CCAs available

CCAs in NYJC :

Volleyball, Basketball, Football, Table Tennis, Badminton, Tennis, Netball, Squash, Dragon Boat, Floorball, Tchoukball, Touch Rugby

Symphonic Band, Choir, Chinese Orchestra, Dance, Guzheng Ensemble, Chinese Cultural Society, English Drama Club, Photographic Society.

AEP Club, AVA Club, Biz Club, Channel News Nanyang, Red Cross Youth, Interact Club, Gym Club, Malay Cultural Society, Nanyang Debaters and Orators, Outdoor Activities Club, Robotics Club, Media Resource Library.

School culture

Dress-Down Days



#making 200 friends

School hours

8.30am start time

Example of a timetable

2301-E/H1 (From 20/2/2023)

	0730	0800	0830	0900	0930	1000	1030	1100	1130	1200	1230	1300	1330	1400	1430	1500	1530	1600	1630	1700	1730	HL (OWN TIME)
Mon A					J1 H2 CHEM LT 2 LT 4		bio Bio Lab 2 WONG HOAY CHET						chem 5-63 CHIN DE SHUN		gp 5-58 SUM LAI SA ELIZABETH		eng1 5-58 SANAH AKHTAR					
Tue A			Assembly			J1 H2 BIO LT 4		chem Chem Lab 5 CHIN DE SHUN					H1			eng1 5-62 SANAH AKHTAR						
Wed A				J1 H2 CHEM LT 2 LT 4			J1 H2 ENG SANAH AKHTAR SARADETCH MELISSA-MAE		NyReach			pe ALAN TAN										
Thu A									Assembly		ct 3-27 SANAH AKHTAR		pw Comp Lab 3 TONNY				gp 5-56 SUM LAI SA ELIZABETH					
Fri A			Assembly	pw 4-55 TONNY		J1 H2 BIO LT 4		H1		gp 4-56 SUM LAI SA ELIZABETH		bio 4-56 WONG HOAY CHET				eng2 5-65 SARADETCH MELISSA-MAE	pe ALAN TAN					
	0730	0800	0830	0900	0930	1000	1030	1100	1130	1200	1230	1300	1330	1400	1430	1500	1530	1600	1630	1700	1730	HL (OWN TIME)
Mon B		bio Bio Lab 2 WONG HOAY CHET		pw 5-44 TONNY						J1 H2 BIO LT 4		H1				eng2 5-64 SARADETCH MELISSA-MAE	chem 5-64 CHIN DE SHUN					
Tue B			Assembly		J1 H2 CHEM LT 2 LT 4		gp 5-63 SUM LAI SA ELIZABETH				eng1 ITR 1 SANAH AKHTAR		bio ITR 2 WONG HOAY CHET									
Wed B																	H1 Home		J1 GP Home			
Thu B		gp 4-52 SUM LAI SA ELIZABETH				pw 4-61 TONNY		pe ALAN TAN			ct 3-27 SANAH AKHTAR		J1 H2 BIO LT 4		J1 H2 ENG SANAH AKHTAR SARADETCH MELISSA-MAE							
Fri B			Assembly		J1 H2 CHEM LT 4 LT 2		pe ALAN TAN				eng1 3-47 SANAH AKHTAR		chem Chem Lab 5 CHIN DE SHUN									
	0730	0800	0830	0900	0930	1000	1030	1100	1130	1200	1230	1300	1330	1400	1430	1500	1530	1600	1630	1700	1730	HL (OWN TIME)

How to read the Timetable

	0730	0800	0830	0900	0930	1000	1030	1100	1130	1200	1230	1300	1330	1400	1430	1500	1530	1600	1630	1700	1730
Mon B		bio Bio Lab 2 WONG HOAY CHET			pw 5-44 TONNY						J1 H2 BIO LT 4		H1				eng2 5-64 SARADATCH MELISSA- MAE		chem 5-64 CHIN DE SHUN		
Tue B			Assembly		J1 H2 CHEM LT 2 LT 4		gp 5-63 SUM LAI SA ELIZABETH				eng1 ITR 1 SANAH AKHTAR		bio ITR 2 WONG HOAY CHET								
Wed B																	H1 Home			J1 GP Home	

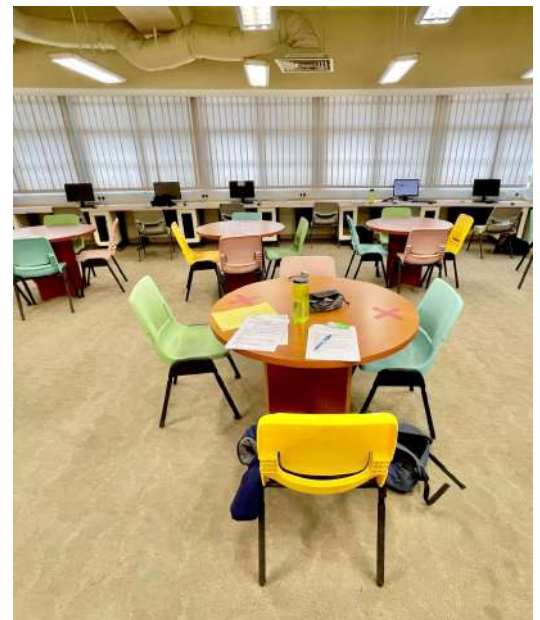
Physical Environment & Facilities



Physical Environment & Facilities



Physical Environment & Facilities



Location & travelling time



NYJC is

- a 3 - 5 min walk to Lorong Chuan MRT (**CCL**)
- 1 stop away from Bishan (**NSL**) & Serangoon MRT (**NEL**)

Opportunities available

- **Leadership Roles**
- **Overseas Subject/CCA Trips**
- **International & Regional Service-Learning Expeditions**
- **Science Research Programme**
- **EdVenture - Learning Journeys**
- **Edspirience - Workshops at Institutes of Higher Learning**
- **Work Attachments**
- **NY's Talent Development Programme, Galileo**
- **Scholarships & Awards**

Collaboration with NUS, NTU

Learning beyond the classroom

We were hoping that we would be able to benefit bird watchers and maybe, contribute more to conservation efforts...

- Edwin Ong and Liow Shang Yu, **Nanyang Research Programme**

Over the past year, I've been very impressed with how proactive the pair was in looking after their own learning

- Dr Kenneth Lim, **Senior Research Scientist, NIE**

TECHNOLOGY

Identifying birds with the aid of artificial intelligence

Two Nanyang Junior College students created an online identification application that names birds based on uploaded images. REHMAT KAUR THAKRAL reports.

Unless they are bird enthusiasts, few people would be able to name the various species of birds they come across.

Two students from Nanyang Junior College have devised a digital solution to this problem.

Edwin Ong and Liow Shang Yu, both 17 and in their second year, came up with an innovative Web application that uses artificial intelligence (AI) to identify different birds.

To identify a bird, a user has to upload an image of it. The application will then suggest the likely species of the bird, the probable accuracy of the prediction, and a sample picture of what the app's AI model thinks the bird looks like.

The user will then be able to learn more about the bird by choosing an option that redirects to the Singapore Birds Project website, which provides details such as a bird's common behaviour.

The boys worked on this application from April last year to January as part of the Nanyang Research Programme, an annual outreach programme by Nanyang Technological University for students in their first year of junior college.

"We were hoping that we would be able to benefit bird watchers and, maybe, contribute more to conservation efforts because birdwatchers play a very vital role in conservation efforts," said Shang Yu. Birdwatchers provide huge amounts of data to conservation researchers.

During the project, the students were helped and guided by Dr Kenneth Y.T. Lim, 55, and his team.

"Over the past year, I've been very impressed with how proactive the pair was in looking after their own learning," said Dr Lim, a senior research scientist at the National Institute of Education.

The boys faced many challenges throughout the process as they had little prior knowledge of artificial intelligence and Web programming.

"The maths was university level, and, with our busy schedules, it was difficult to allocate time for us to learn the fundamentals of artificial



Liow Shang Yu (right) and Edwin Ong, both 17, worked for about a year to create a bird identification website. They hope it can be used to aid bird conservation. ST PHOTO: GUN TAN



birds. They uploaded profiles of 41 birds to the identification model.

The app does have some limitations, though. For example, as they had a limited time to work on the app, it currently can identify only the birds they added to the model so far, but there are over 300 birds native to Singapore.

Furthermore, if an uploaded image is too grainy or too low in resolution, the application's identification model may not be able to clearly pick the bird out from the background.

"Our app isn't the end product," Edwin added. "It's an idea that can be improved on to help serve its purpose for conservation."

The duo's next step for the application, which is not yet available to the public, would be to expand its database, provided they have the time and resources. Once they have

tried to solve the issues independently and referred to online forums and YouTube tutorials for solutions.

From April last year to December, the boys used deep learning to develop the identification model of the application, which identifies the spe-

Deep learning is a method in artificial intelligence that teaches computers to process data in a way that imitates how humans gain knowledge.

Using datasets from Google Images, the duo uploaded an average

Work Attachment Opportunities

- Singapore Academy of Law Junior College Law Prog
- Legal Aid Bureau
- Law Society Pro Bono Services
- Physiotherapy Dept at SGH
- Dietetics and Nutrition Dept at TTSH
- Nursing Programme at TTSH
- Pharmacy Dept at KK Hospital
- AMK-Thye Hua Kwan Hospital

- Singapore Space and Technology Association
- Land Transport Authority
- MOH Healthcare Immersion Prog
- National Gallery
- National Museum of Singapore
- Wildlife Reserves S'pore
- Little Arts Academy

Talent Development Programme (Galileo)

Special Features

Mentorship by teacher-mentors in helping students to build their portfolios

Priority given in terms of opportunities such as the **NYJC-Braddell Heights Community Leadership Programme**, talks and seminars

Preparation for scholarship interviews
(e.g PSC Interviews)

Scholarships & Awards

- MOE Pre-University Scholarship
- Language Elective Programme (Chinese) Scholarship
- Art Elective Scholarship
- A*STAR Science Award (Junior College)
- DSTA Junior College Scholarship
- Goh Chok Tong NextGen Outstanding Student Leader Award
- NextGen Young Community Leader Award
- Singapore Police Book Prize
- Singapore Armed Forces Young Leader Award
- LTA Book Prize
- NYJC SMC Sports Excellence Awards
- NYJC SMC CCA Excellence Awards

Nanyang Junior College

Zhong Zheng Ren Scholarship

- Up to **ten JC1 students** who have demonstrated outstanding achievements in **aesthetics, sports, community and/or leadership**, or have shown **great resilience**.



- Each scholarship has a **cash award of \$1,000**. Scholarship recipients are encouraged to **initiate projects for the college or the community**.

Track Record

About 3 in 5 of our students scored **85** rank points (upon 90) and better in the 2022 'A' Level Examinations

NYJC invites you to
visit us at



128 Serangoon Ave 3



www.nanyangjc.moe.edu.sg



Nanyang JC (Official) FB



heynanyang

Admissions into JCs via

JAE

DSA

What is DSA-JC?

Students can apply to a DSA school ***before*** taking the GCE O-Level examinations.

Students can apply based on their ***talent*** in sports, CCAs and specific academic areas that may not be demonstrated at the O-Level examinations.

What is DSA-JC?

If you are admitted to a school through DSA-JC, you are **not** allowed to:

- Participate in the Joint Admissions Exercise (JAE).
- Transfer to another school. You must commit to your chosen school for the duration of the programme.

KEY EVENTS

Wed, 3 May 2023

Visit school websites for details

Mon, 26 Jun to Thu, 10 Aug 2023

Offer stage for Phase 1

Fri, 11 Aug to Tue, 15 Aug 2023

Acceptance stage for Phase 1

You can only accept one offer by submitting an acceptance form to the school.

Wed, 16 Aug to Fri, 18 Aug 2023

Cooling-off stage

<https://www.moe.gov.sg/post-secondary/admissions/dsa>

KEY EVENTS

Wed, 16 Aug to Tue, 5 Sep 2023

Offer stage for Phase 2

Wed, 6 Sep to Mon, 11 Sep 2023

Acceptance stage for Phase 2

You can only accept one offer by submitting an acceptance form to the school.

By Fri, 6 Oct 2023

Withdrawal stage

Jan 2024

Receive school allocation outcome

<https://www.moe.gov.sg/post-secondary/admissions/dsa>

Q&A