



Architects of the Digital Future

Secondary 3 Computing
Subject Options & Pathways
(Northbrooks Secondary School)



Why Computing?

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graph TD; A((Digital literacy as core life skills)) --- B[Cognitive Foundations]; A --- C[Future Gateways]; A --- D[Creative Confidence];
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Cognitive Foundations

Builds computational thinking, logical reasoning, and complex problem-solving abilities.

Digital literacy as core life skills

Future Gateways

Directly unlocks expansive post-secondary pathways in high-growth sectors like Artificial Intelligence.

Creative Confidence

Empowers students to move from passive consumers of technology to confident, responsible, and creative builders.

Demystifying Computing as an Elective

The infographic features a central vertical teal pipe with three glowing nodes. From each node, a horizontal line connects to a grey 'Expectation' box on the left and a teal 'Reality' box on the right. The teal boxes have a glowing, circuit-like border. The background is a light blue grid with decorative circuit patterns at the top and bottom.

Expectation: It is too difficult and requires prior coding experience.

Reality: The syllabus is highly scaffolded and hands-on. Zero prior experience is required to excel.

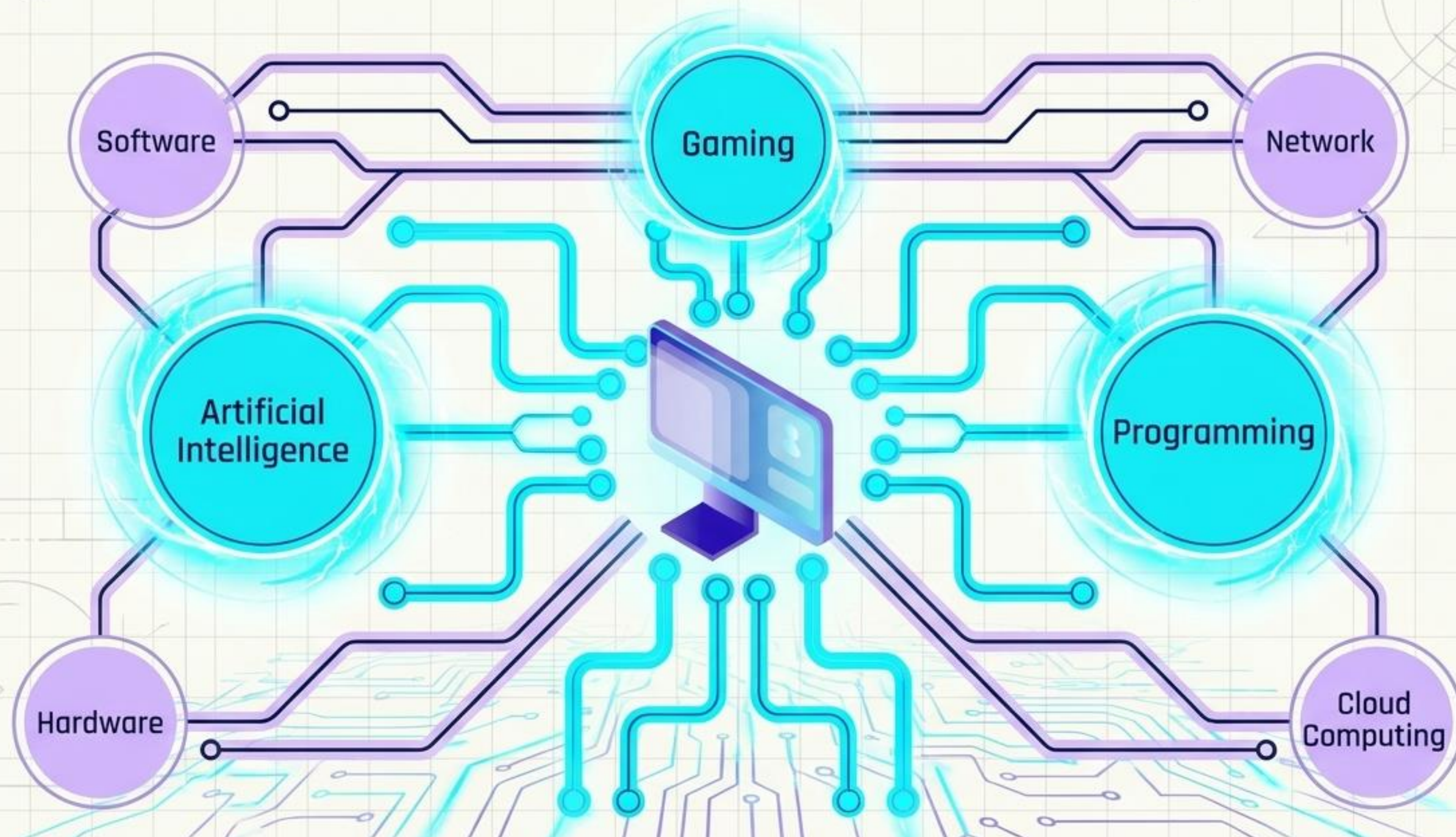
Expectation: It is just endless hours of typing code.

Reality: Coding is just one module. Students learn holistic problem-solving and how to use software creatively.

Expectation: It is only for Math and Science geniuses.

Reality: Computing builds adaptable logical thinking, prioritizing structured reasoning over pure calculation skills.

Beyond the Screen: What We Actually Teach



The Post-Secondary Ecosystem

Data & AI

Higher Nitec in AI Applications /
Data Engineering

Poly Diplomas in Applied AI &
Analytics / Data Science

Cyber Security

Higher Nitec in Cyber
& Network Security

Poly Diplomas in Cybersecurity &
Digital Forensics / Infocomm & Security

Immersive Media

Higher Nitec in
Immersive Applications
& Games

Poly Diplomas in Immersive Media
(Game Dev/AR-VR) / Digital Design

Core IT & Systems

Higher Nitec in
IT Apps Dev

Poly Diplomas in Software
Engineering / Computer Engineering

These pathways are highly accessible across NYP, NP, RP, SP, and TP.

High-Demand Roles in the Digital Economy

AI Engineer



Software Developer



Game Developer / Digital Animator



Cyber Security Analyst



The Future-Ready Pipeline

Phase 1: The Foundation (Secondary School)

Skills: Logical Reasoning,
Computational Thinking.

Subject: Computing (AI,
Code, Games).

Phase 2: The Amplifier (Tertiary)

Institutions: ITE (Higher
Nitec) & Polytechnics.

Specializations: Cyber,
Data, Immersive Media.

Phase 3: The Destination (Industry)

Impact: Engineering,
Developing, and Securing
the digital landscape.

Secondary Computing is the launchpad that transforms interest into highly sought-after expertise.

Subject Banding Diagnostic Matrix

G1 Computing

Status
Compulsory Subject

Eligibility
Compulsory for ALL G1 students

Location
Conducted at Northbrooks

G2 Computing

Status
Elective Subject

Eligibility
Attain overall score of $\geq 50\%$ in G2 Math at the end of Sec 2

Location
Conducted at Northbrooks

G3 Computing

Status
Elective Subject

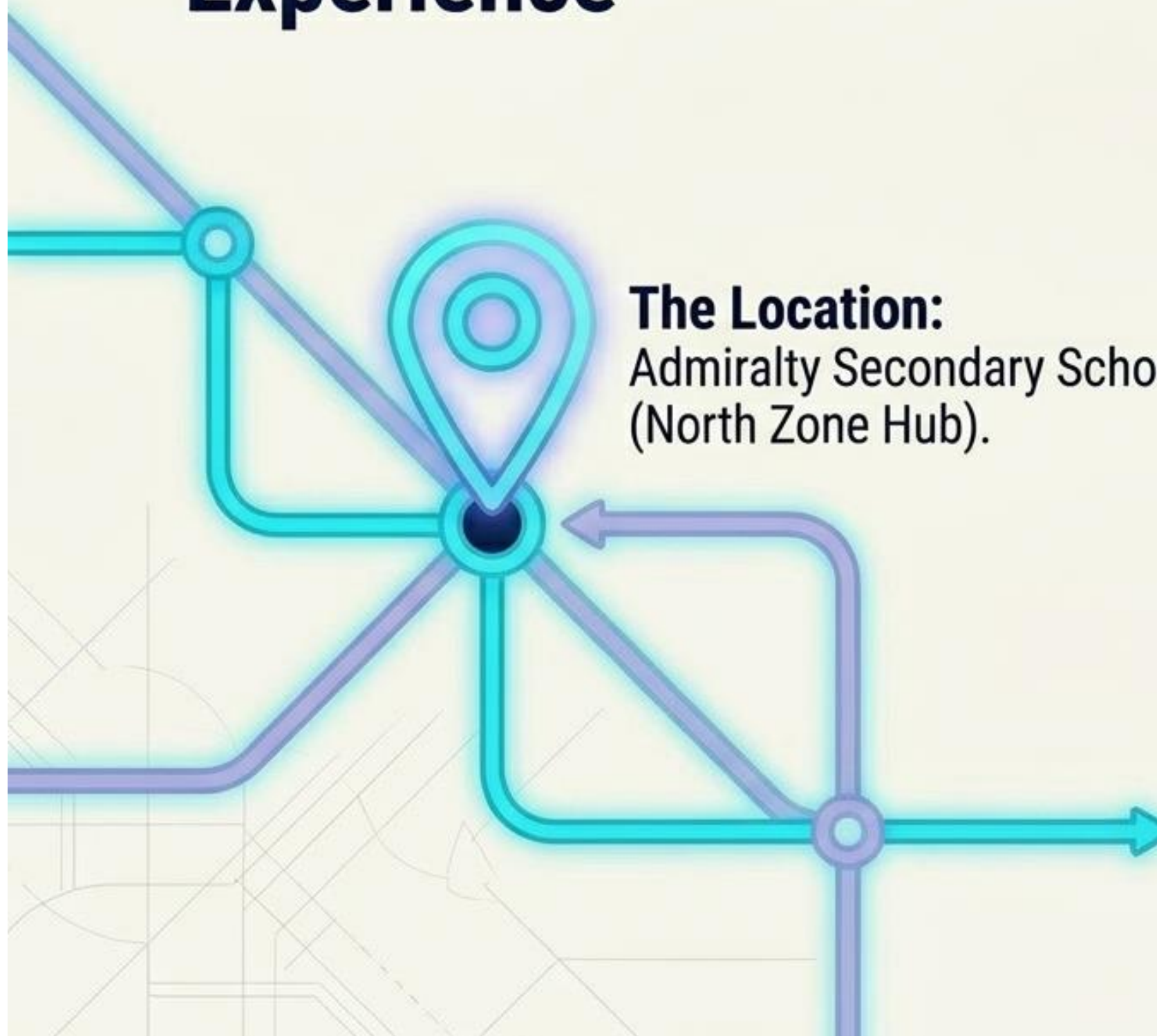
Eligibility
Attain an overall score of at least 65% in Sec 1 G3 Mathematics.
Attain an overall score of at least 60% in Sec 2 G3 Mathematics.

Location
External Centre

G3 Computing

Administrative Processes, Timeline
and Programme Details

The G3 Centre-Based Experience



The Location:
Admiralty Secondary School
(North Zone Hub).



The Capacity

Highly exclusive cohort – capped at up to 40 students.



The Format

A dynamic blended format over 2 years.



The Schedule

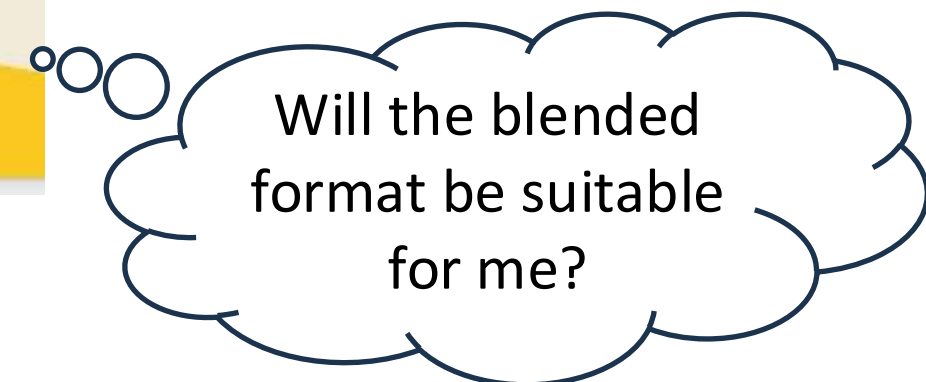
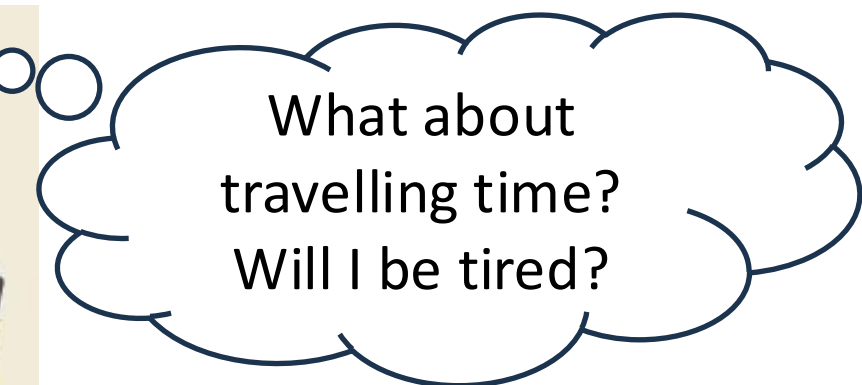
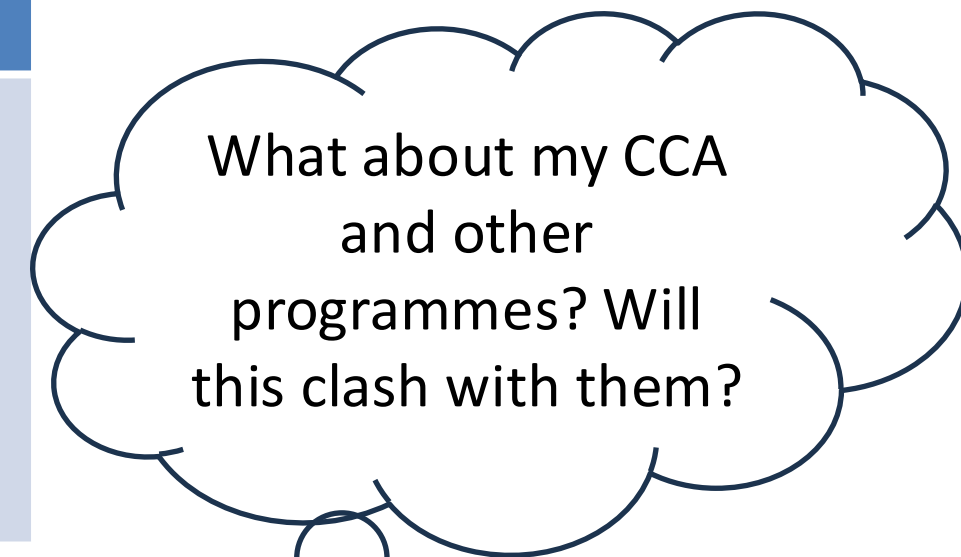
3 hours per week. Conducted on Thursdays from 3:30 PM onwards, paired with an asynchronous lesson block on an alternate day.

Centre and Schedule

<u>Centre</u>	<u>Timing</u>
<u>Admiralty Secondary School (North)</u>	Thursday, 3.30 pm onwards, with asynchronous lesson on an alternate day.

The centre will offer up to 40 students.

Lessons will be 3 hours per week over 1 or 2 afternoons, for 2 years, and may take a blended format.



The Road to 2027 : Application Timeline

May - Aug

**15 May to 21 August 2026
(The Window)**

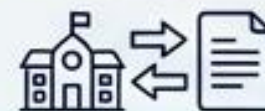
- Students apply online via FormSG.
- Requires:
 - Personal Statement,
 - Sec 1 Overall Result Slip, and
 - Parental/Guardian Approval Form.



Post-August

**Post-August
(Endorsement)**

- Applications are automatically routed to schools for official endorsement. Schools will provide Sec 2 EOY results for successful applicants.



Term 4

**Term 4
(Outcome)**

- Students are informed of their application status via the school.
- Details on the appeal process will follow.



Your Pathway Begins Here

**Secure your place in the
digital economy.**

go.gov.sg/g3centrebasedcomp2026



Submit all applications and supporting documents via FormSG by 21 August 2026.

Thank you

