

Student Cohort Introduction

MIT Hong Kong Innovation Node offers computational thinking and App Inventor courses directly to students. Schools can choose to have courses in-school or experience a bootcamp at the MIT Hong Kong Innovation Node in Kowloon Tong.

Highlights:

- Schools can choose to run the course in-school or at the MIT Node venue.
- Students gain a basic understanding of computational thinking concepts, practices, and perspectives through a fun experience of App inventor programming.
- Teaching content is innovative and flexible catering to diverse student needs.
- Soft skills such as presentation, expressing and teamwork are also heavily incorporated.
- School teachers are welcome to observe CoolThink@JC pedagogy in action.

Participants: P5-P6 students (Priority will be given to government schools, aided schools and direct subsidy schools that have not participated in CoolThink in the past)

Curriculum

Session	Topic	Activity	Key Learning Goals
1 (90 mins)	Computational Thinking Introduction	Unplugged Activity - Programming the Teacher Robot App Inventor Introduction App Project: Hello It's Me	<ul style="list-style-type: none">• Understand sequences, algorithms, testing and debugging• Express themselves by creating their app• Learn to use App Inventor
2 (90 mins)	Design Your Own Musical Instrument	App Project: MyPiano	<ul style="list-style-type: none">• Learn to reuse codes and being iterative• Increase positive perception of coding by making a useful and fun app
3 (90 mins)	Drawing Game	Unplugged Activity - Building a Structure with Programming App Project: Painting App	<ul style="list-style-type: none">• Learn to organize by giving proper names• Learn about events
4 (90 mins)	Your Final Project	Group Final Project: Optimizing a project	<ul style="list-style-type: none">• Learn to work in teams to express their creativity• Learn to present project in front of class• Learn to share and appreciate each other's work

Course Options:

Option A: In-School Support		Option B: Bootcamps@MIT Node
A1: One-Day Bootcamps	A2: In-School ECA Course	B1: One-Day Bootcamps
<ul style="list-style-type: none"> 6-hr day camp Tailored to your school schedule 	<ul style="list-style-type: none"> 1.5-hr session repeated 2 – 4 sessions during term time 	<ul style="list-style-type: none"> 6-hr day camp 09:30-12:30; 13:30-16:30

Schedule

AY	Support Methods	Items	Time	Location	Participants	Remarks
2023-24	In-School Support	Regular ECAs	May	School	30	Tuesday & Thursday after school hours
			June	School	30	
		One-Day Bootcamp	July 2nd	School	30	School holidays/ weekends * Full day - 6hours * 9:30AM - 12:30PM * 1:30PM - 4:30PM * Students should bring own Lunch * Bootcamp @ MIT Node can accommodate 1-2 schools participating together.
			July 3rd	School	30	
			July 4th	School	30	
			July 5th	School	30	
	Bootcamp @ MIT Node	One-Day Bootcamp	March 29th	MIT Node	30 - 60	
			April 2nd	MIT Node	30 - 60	
			May 18th	MIT Node	30 - 60	
			June 12th	MIT Node	30 - 60	

			July 11th	MIT Node	30 - 60	
			July 12th	MIT Node	30 - 60	
			July 13th	MIT Node	30 - 60	

Equipment

Participants need to bring their own tablet or laptop

Registration

<https://forms.gle/XRviKsFknUdt4u2s7>

Contact Person

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