



# Computer Board Game Design in Blockly

(E1MLG001C)

<b>Introduction</b>	Coding can be learned in purposeful way. In this course the main aim is to learn Blockly, a powerful and fast block language. Along the journey, we will make some simple board games to challenge our friends and families. We will not only learn how to write code, but also use coding to practice the most important aspect of STEM, Computational Thinking. We will learn basic coding techniques and how to weave them together to form some complete projects or even your own game designs.
<b>Programme Type / Level</b>	Computer Programming Course (Level I) ( <a href="#">Token-required</a> )
<b>Instructor(s)</b>	Mr. LAU Kam Ming (Smart Kiddo Education Limited)
<b>Pre-requisite</b>	No special prerequisites are needed
<b>Target Participants</b>	<ul style="list-style-type: none"><li>➢ P4 to P6 HKAGE student members only in 2020/21 school year</li><li>➢ Class size: 30</li></ul> <p>This programme is the same as Computer Programming Course (Level 1): Blockly &amp; Digital Game Design (TECP1311) in 2019/20 school year.</p>
<b>Medium of Instruction</b>	English with English handouts
<b>Certificate</b>	<b>E-Certificate</b> will be awarded to participants who have: <ul style="list-style-type: none"><li>❖ Attended <b>at least 3 sessions; AND</b></li><li>❖ Completed all the assignments with <b>satisfactory performance</b></li></ul>
<b>Intended Learning Outcomes</b>	Upon completion of the programme, participants should be able to: <ol style="list-style-type: none"><li>1. describe block coding and simple data structures;</li><li>2. create several applications with Blockly;</li><li>3. compare and contrast the merits and demerits of different coding programming tools;</li><li>4. critically review the effectiveness and efficiency of different strategies in coding programming.</li></ol>
<b>Application Procedure</b>	<b><u>This programme is Programmes with No Screening</u></b> <p>There are no screening questions, written test or other screening methods for this type of programmes.</p> <ul style="list-style-type: none"><li>● Student members can select up to 5 programmes from a list of selection. Applicants have to state the priority when submitting the application. (1<sup>st</sup> priority, 2<sup>nd</sup> priority, 3<sup>rd</sup> priority, etc). 1 token is required for each programme (For programme list, please refer to the issue 20 of Gifted Gateway (<a href="#">click here</a>));</li><li>● Application can only be submitted once. Once it is submitted, the priority and the programme selection cannot be changed;</li><li>● If a student member removes a programme from the application before the application deadline by withdrawal, the choice priority will remain unchanged. (For example: A student has selected three programmes and removed the programme with the 1<sup>st</sup> priority from the application. The choices of 2<sup>nd</sup> and 3<sup>rd</sup> priority will remain unchanged with no promotion in priority.);</li><li>● We will select the students based on the student's choice of priorities and a randomly generated selection by the computer system. If there is time clash between the applied programme and other programmes with offer, HKAGE will consider if the application will be accepted;</li><li>● Priority will be given to student members who have not completed the applied programmes;</li><li>● Student members should avoid applying programmes with time clash;</li><li>● The decision of HKAGE on the result of selection should be final.</li></ul>

Application

**22 Oct 2020 12:00 n.n**

Application Result Release Date

**30 Oct 2020**

Deadline

If student members withdraw from the programme after the Application Deadline, the token will be deducted.

### Schedule

Session	Date	Time	Venue (HKAGE)
1	23 Dec	9:30 a.m. – 12:30 p.m.	Room 403 <b>Zoom Meeting</b>
2		2:00 p.m. – 5:00 p.m.	
3	30 Dec	9:30 a.m. – 12:30 p.m.	
4		2:00 p.m. – 5:00 p.m.	

### Enquiries

For enquiries, please contact Academic Programme Development Division on 3940 0101 after language selection, press "1".

**SCIENCES**

科學