



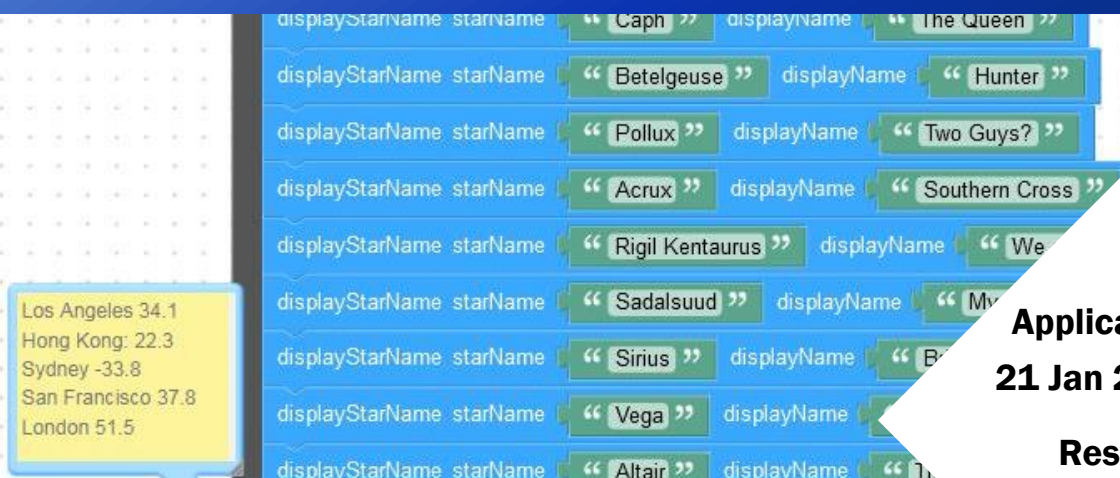
E1COD003C

(Token- required)

Coding Course (Level I)

Analyzing Astronomical Data and Build Your Own Star Chart

Mr. LAU Kam Ming
(Smart Kiddo Education Limited)



Application Deadline
21 Jan 2022 12:00 n.n

Result Release
28 Jan 2022

Intended Learning Outcomes

Upon completion of the programme, participants should be able to:

1. describe the sky in astronomical terms, such as lightyear, parsec, magnitude, right ascension, declination, altitude, etc;
2. create a digital star chart using data analysis and coding skill;
3. compare real celestial objects with virtual celestial objects created by the students;
4. critically reflect the importance of human space exploration.



◆ Introduction

This course combines astronomy in natural science, data analytics and coding in engineering and technology, and geometry and coordinate systems in mathematics. Students will be learning more about the stars and constellations in the night sky. They will calculate the locations and plot them in a virtual 360-degree 3D panoramic view. At the end of this course, they will be able to create their own star chart in a Virtual Reality world.

◆ Schedule

Session	Date	Time	Venue
1	2 Apr	9:30 a.m. – 12:30 p.m. 2:00 p.m. – 5:00 p.m.	Zoom Meeting (TBC)
2			
3	9 Apr		
4			
5	23 Apr	9:30 a.m. – 12:30 p.m.	

◆ Target Participants

- P4 to P6 HKAGE student members only in 2021/22 school year
- Class size: 30

This programme is same as Astronomy I Course (Level I): Analyzing Astronomical Data and Build Your Own Star Chart(E1AST003C) in 20/21 school year.

◆ Pre-requisite

No special prerequisites are needed

◆ Medium of Instruction

English with English handouts

◆ Certificate

E-Certificate will be awarded to participants who have:

- attended at least 4 sessions; AND
- completed all the assignments with satisfactory performance



◆ Application Procedure

This programme is Programmes with No Screening.

There are no screening questions, written test or other screening methods for this type of programmes.

- Student members can select up to 5 programmes from a list of selection. Applicants have to state the priority when submitting the application. (1st priority, 2nd priority, 3rd priority, etc). 1 token is required for each programme

(For programme list, please refer to the latest issue of Programme Schedule ([click here](#)));

- The application can only be submitted once. After submission of the application, the programme selection and the priority cannot be changed;
- 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 1st priority from the application. The choices of 2nd and 3rd priority will remain unchanged with no promotion in priority);
- 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;
- Student members should avoid applying programmes with time clash;
- The decision of HKAGE on the result of selection should be final.