



E1STM003W

[\(Token- required\)](#)

## Daily Science Workshop (Level I)

# Bio-catalysis Scientist & Science of “Transformation”

Instructors from Creative Education Unit,  
The Hong Kong Federation of Youth Groups



**Application Deadline**  
**20 Jan 2023 12:00 noon**

**Result Release**  
**27 Jan 2023**

### **Intended Learning Outcomes**

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

1. elaborate the characteristics of enzymes and their functions in the human body;
2. test how different factors affect enzymes;
3. compare the characteristics and applications of different polymers;
4. synthesis a bouncy ball by polymerization;
5. apply scientific methods to conduct fair test and increase critical thinking ability.



## ◆ Introduction

This workshop is divided into two parts.

Bio-catalysis Scientist:

Enzymes are biological catalysts that act to increase the rate of chemical reactions in living organisms. Without enzymes, the rate of chemical reactions inside cells would be too slow to sustain life. Through scientific experiments, participants would understand the characteristics of enzymes and explore different factors that affect enzymatic activity.

Science of "Transformation":

Bouncy balls are our childhood toys, but do you know what materials could be used to make them? In this workshop, participants will learn the fundamental concepts of polymers and use simple chemical principles to create their own shape-changing bouncy ball.

## ◆ Schedule

Session	Date	Time	Venue
1	25 Mar 2023	10:00 a.m. – 1:00 p.m.	HKFYG Centre for Creative Science and Technology, Room 210, 2/F, 5W Building, Phase 1, Hong Kong Science Park, N.T. ( <a href="#">Location</a> )

## ◆ Target Participants

- P4 to P6 HKAGE student members only in 2022/23 school year
- Class size: 30

## ◆ Pre-requisite

No special prerequisites are needed

## ◆ Medium of Instruction

Cantonese with Chinese handouts

## ◆ Certificate

E-Certificate will be awarded to participants who have:

- attended all 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 Programme Schedule [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.