



# Fold Up Paper

## Brush Up My Math I (MATP1021)

### Introduction

Origami means paper folding in Japanese. It is usually regarded as a form of art. Have you thought of relating origami with mathematics? From this course, you will learn different properties of polygons and polyhedra. You can use your creativity to make geometric models with your own style. Let's fold up paper, brush up your math.

### Programme Type / Level

Geometry and Topology Course (Level 1) ([Token-required](#))

### Instructor(s)

Ms. Poon Ying Ming

### Pre-requisite

Students should be able to:

- identify and describe the constructions of different polygons,
- identify and describe the constructions of different polyhedrons,
- sketch a polygon according to specified constructions,
- sketch a net of specified polyhedrons,
- make an angle bisector on a piece of square paper by folding,
- make a perpendicular bisector of any side of a piece of square paper by folding.

### Target Participants



- P4 to P6 HKAGE student members
- Class size: 24

### Medium of Instruction



Cantonese with Chinese/English handouts

### Certificate



**E-Certificate** will be awarded to participants who have:

- ❖ Attended **AT LEAST 3** sessions AND
- ❖ Completed all the assignments with satisfactory performance.

### Intended Learning Outcomes



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

- Identify different properties of regular polygons and polyhedrons;
- Apply the properties of geometric shapes in solving geometric problems;
- Create geometric patterns or solids with a given number of angles or equal faces.

### Screening



Please answer the screening question in the online application form.

\*The screening question is designed to help the applicant understand the course level and the course content. The question must be answered by the student applicant and it can only be attempted once. The answer cannot be changed once the application is submitted. Selection is based on students' performance in answering the question. Only students who can demonstrate motivation and the knowledge of geometry in the screening question can be enrolled in the programme.

### Application Deadline

**29 Apr, 2019 12:00 n.n**

### Application Result Release Date

**10 May, 2019**

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

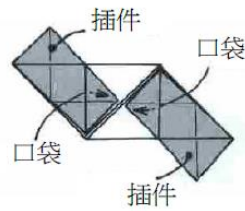
## Schedule



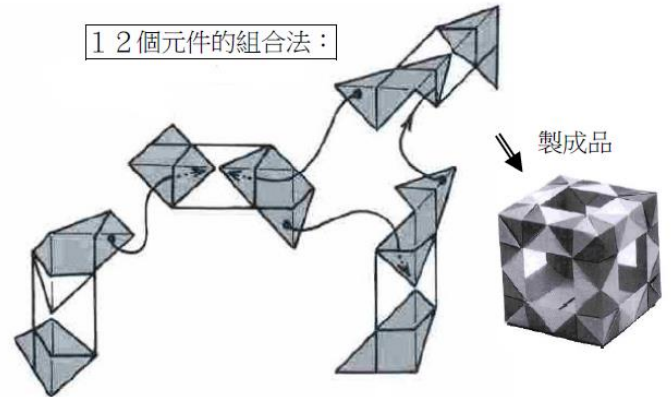
Session	Date	Time	Venue(HKAGE)
1	19 Aug 2019	2:00 p.m. – 5:00 p.m.	Room 303
2	20 Aug 2019		
3	21 Aug 2019		
4	22 Aug 2019		

## Sample Example for the Programme

蝴蝶紋長方帶的用法：



1 2 個元件的組合法：



### Reference:

Crane:

<https://www.youtube.com/watch?v=Ux1ECrNDZI4>

Heart:

<https://www.youtube.com/watch?v=nnV262Egucw>

Base Fold:

<http://www.origami-instructions.com/origami-base-folds.html>

origami & math

<http://www.edb.gov.hk/attachment/tc/curriculum-development/kla/ma/res/Cabinet%2017.pdf>

## Enquiries



For enquiries, please contact us at 3940 0101 after language selection, press "1".