香 港 資 優 教 育 學 苑
The Hong Kong Academy for Gifted Education

Fold Up Paper
Brush Up My Math 1 (MATP1021)

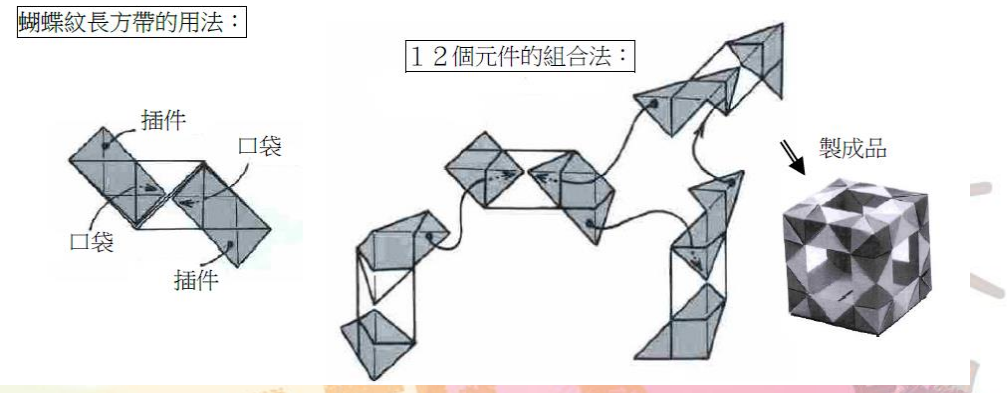
Introduction	Origami means paper folding in Japanese. It is usually regarded as a form of art. Have you thought of relating origami with mathematics? From this course, you will learn different properties of polygons and polyhedra. You can use your creativity to make geometric models with your own style. 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 （Senior Secondary School Mathematics Teacher）
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 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 understands 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	**11 May, 2020** **12:00 n.n.**
Application Result Release Date	**22 May, 2020**

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

Schedule

Session	Date	Time	Venue(HKAGE)
1	~~17 Aug 2020~~ **7 Nov 2020**	2:00 p.m. – 5:00 p.m.	~~Room 403~~ **Room 203**
2	~~18 Aug~~ **14 Nov**		~~Room 303~~ **Room 203**
3	~~19 Aug~~ **21 Nov**		
4	~~20 Aug~~ **28 Nov**		

Sample Example for the Programme



Reference:

Crane:

https://www.youtube.com/watch?v=Ux1ECrNDZl4

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

數學百子櫃系列（十七）摺紙與數學

https://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".