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

Perspectives on Junior Secondary Mathematics – Geometry (E1MAT010C)

Introduction	Do you want to inquire advanced mathematics knowledge step by step? Mathematics knowledge is built from foundation. This programme teaches the key geometric knowledge at junior secondary levels in a succinct way to equip participants with the basic knowledge required for learning mathematics at an advanced level. It enables participants to learn mathematics at higher levels according to their own interests and abilities, and discover the joy of learning mathematics. This is one of the programme in the Subject Core Series which is comprised of four level I programmes. They are namely 1. Numbers (E1MAT001C) 2. Algebra (E1MAT003C) 3. Geometry (E1MAT010C) 4. Statistics (E1MAT011C) This programme is co-organized with Caritas Fanling Chan Chun Ha Secondary School.
Programme Type / Level	Geometry and Topology Course (Level I) (Token-required)
Instructor(s)	Mr. Lo Yat Lung (Caritas Fanling Chan Chun Ha Secondary School, Mathematics Teacher)
Pre-requisite	Students should have the basic knowledge in • angles related with lines and rectilinear figures • angles in triangles and polygons • solving equations • square root • determining the type of quadrilaterals
Target Participants	➢ P4 to P6 HKAGE student members ➢ Class size: 30 This programme is same "Geometry and Topology Course (Level 1): Perspectives on Junior Secondary Mathematics – Geometry (MATP2311)" in 19/20 school year.
Medium of Instruction	Cantonese with Chinese handouts
Certificate	**E-Certificate** will be awarded to participants who have: 1. attended **AT LEAST 3** sessions AND 2. completed all the assessments with satisfactory performance.
Intended Learning Outcomes	Upon completion of the programme, the participants should be able to: ● recognise the effect on 2-D shapes after the transformation including reflection, rotation, translation, dilation, etc; ● identify whether two triangles are congruent/similar with simple reasons; ● inquire geometry knowledge in 2-D space using trigonometric relations; ● inquire, describe and represent geometric knowledge in 2-D figures using numeric and algebraic relations; ● recognise the properties of simple 3-D object.
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	**17 May 2021 12:00 n.n.**	Application Result Release Date	**28 May 2021**

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

Schedule

Session	Date	Time	Venue
1	14 Jul 2021	2:30 p.m.– 5:30 p.m.	Caritas Fanling Chan Chun Ha Secondary School *
2	15 Jul		
3	16 Jul		
4	22 Jul		

*Address: 28 San Wan Road, Fanling,N.T.(MAP)

Sample Notes

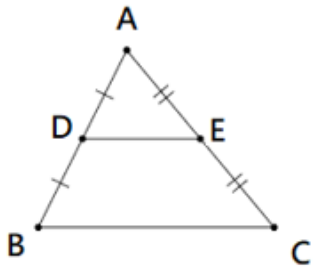
B. 利用座標幾何證明

本部份將會利用座標幾何證明幾何定理

命題 1: 中點定理(mid-point theorem)

ABC 是一個三角形，D 和 E 是 AB 和 AC 的中點，則

(a) BC=2DE, (b) DE//BC



Enquiries

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