



Coordinate Geometry I (MATO3321)

Introduction

Geometry and coordinate system, which solve many mathematical problems from different perspectives with different approaches, are major mathematical topics and relate closely to each other. Using innovative and interactive teaching materials, this online learning programme lets students learn about the properties of Cartesian coordinate system, polygons and polyhedrons so as to sharpen their geometrical problem solving skills, improve their spatial thinking ability and enhance their self-directed learning skills.

Module 1: Coordinate Geometry <ul style="list-style-type: none"> ◇ Study the concept of coordinate system ◇ Learn to calculate the distance between two points on a horizontal line or a vertical line 	Module 2: Areas and Volumes <ul style="list-style-type: none"> ◇ Learn to draw the cross-sections of simple solids ◇ Explore the method of making models of polyhedrons
Module 3: Applications of Areas and Volumes <ul style="list-style-type: none"> ◇ Recognize different types of prisms, including cubes and cuboids ◇ Understand and apply the formula for the total surface areas and volumes of prisms and pyramids 	Module 4: Applications of Coordinate Geometry <ul style="list-style-type: none"> ◇ Explore the slopes of horizontal line and vertical line ◇ Apply Mid-point Formula and Section Formula

Programme Type / Level

Geometry and Topology Online Learning Programme (Level 1) ([Non Token-required](#))

Writer

Mr. Chan Ka Wing

Target Participants

◇ P4 to P6

* Students who fail the online programme can enrol in it again in the next quarter.
(Quarter ONE : 2 April – 30 June; Quarter TWO: 2 July – 30 Sep; Quarter THREE: 2 Oct – 31 Dec; Quarter FOUR: 2 Jan – 31 Mar).

Medium of Instruction



English

Intended Learning Outcomes



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

1. Interpret the position and slope in Cartesian coordinate system.
2. Derive perimeter, area and volume equations of different polygons and polyhedrons.
3. Apply the properties of different polygons and polyhedrons to solve geometry problems.
4. Use Cartesian coordinate system to solve 2D shape geometry problems

Duration

12 hours

System Requirement

Browser: IE 8 OR above; Firefox 6 OR above; Safari
Screen resolution: 1024x768

Application Procedure



1. Click "[HERE](#)" to go to online application platform
2. Complete and submit the online application form
3. You and your parent will receive the Online Application Confirmation email from our system
4. Click "[HERE](#)" to access to the moodle platform
5. Use the USERNAME and PASSWORD indicated in the email to login
6. You may start now!

Remarks

You have to pass the online test in order to complete the course by attempting **ONCE** only.

Enquiries



For enquiries, please contact us at 3940 0102.