

**都立国際高校 年間授業計画 / Tokyo Metropolitan Kokusai High School Course Syllabus**

**科目基礎情報 / Course information**

開講年度 / Academic year	令和5年度 / 2023年度
開講学科 / Department	国際学科国際バカロレアコース / IBDP(International Baccalaureate Diploma Programme)
教科 / Subject	Mathematics Analysis and Approaches Higher Level (DP2)
科目 / Course Title	Mathematics Analysis and Approaches Higher Level (DP2)
学年・クラス / Year・Class	DP2
単位数 / credits	6

**科目概要情報 / Course description**

講座概要 / Course description	This course recognizes the need for analytical expertise in a world where innovation is increasingly dependent on a deep understanding of mathematics. This course includes topics that are both traditionally part of a pre-university mathematics course (for example, functions, trigonometry, calculus) as well as topics that are amenable to investigation, conjecture and proof, for instance the study of sequences and series and proof by induction.
到達目標 / Course objectives	Enjoy mathematics and develop an appreciation of the elegance and power of mathematics. Develop an understanding of the principles and natures of mathematics, develop logical, critical and creative thinking. Employ and refine powers of abstraction and generalization.
評価方法と評価基準 / Evaluation method and criteria	1. Knowledge and Understanding 2. Problem solving 3. Communication and Interpretation 4. Technology 5. Reasoning 6. Inquiry Approaches
教科書 / Textbooks	Mathematics: Analysis and Approaches, Higher Level, Pearson Education
校外学習 / Field trip	

**授業計画 / Course schedule**

	指導項目 / Topic	指導内容 / Contents	評価の方法・基準 / Evaluation method and criteria	予定時数 / Alotted hours
1学期/1st semester	4月	Probability Distributions	Homework, Quizzes, Take-Home Assignments, Examinations	20
	5月	Integral Calculus II (Differential equations)		20
		Integral Calculus II (Differential Equations II)		20
	6月	Practicing Paper 3		20
		Review for Mock Exams		20
	7月			18
2学期/2st semester	9月	Review for Final Exams	Students will work in groups and individually work on past papers to prepare for the final examinations.	20
	10月	Review for Final Exams		20
	11月	Review	16	
	12月	Review	16	
3学期/3rd semester	1月	Review	16	
	2月	Review	16	
	3月	Review	6	

総授業時数 / Total hours

228