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

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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						
開講学科/Department			国際学科国際パカロレアコース/IBDP(International Baccalaureate Diploma Programme)			
教科/Subject			Science			
科目/Course Title 空在・クラス/Year・Class			Physics Higher Level (HL) 3 (IBDP 2nd Year)			
学年・クラス/Year・Class			3 (IBDP 2nd Year)			
単位数/credits						
科目標要情報/Course description Physics is the most fundamental of the experimental sciences as it seeks to explain the universe itself, from the very smallest particles to the vast distances between						
講座概要/Course description			galaxies. Despite the exciting and extraordinary development of ideas throughout the history of physics, observations remain essential to the very core of the subject. Models are developed to try to understand observations, and these themselves can become theories that attempt to explain the observations. By studying physics students should become aware of how scientists work and communicate with each other. While the scientific method may take on a wide variety of forms, it is the emphasis on a practical approach through experimental work that characterizes the subject. Teachers provide students with opportunities to develop manipulative skills, design investigations, collect data, analyse results and evaluate and communicate their findings.			
到達目標/Course objectives			Through the overarching theme of the nature of science, the aims of the DP physics course are to enable students to: * appreciate scientific study and creativity within a global context through stimulating and challenging opportunities * acquire a body of knowledge, methods and techniques that characterize science and technology * apply and use a body of knowledge, methods and techniques that characterize science and technology * develop an ability to analyse, evaluate and synthesize scientific information * develop a critical awareness of the need for, and the value of, effective collaboration and communication during scientific activities * develop experimental and investigative scientific skills including the use of current technologies * become critically aware, as global citizens, of the ethical implications of using science and technology			
評価方法と評価基準/ Evaluation method and criteria			Students will be evaluated as follows: Paper 1: 40 multiple-choice Questions, duration 1 hour, weighing 20%, marks 40 Paper 2: Short-answer and extended-response questions on core and AHL, duration 2 hours and 15 minutes, weighing 36%, marks 95 Paper 3: Questions on core and HL option material, duration 1 hour and 15 minutes, weighing 20%, marks 24 Internal assessment: Duration 10 hours, weighing 20%, 24 marks			
教科書/Textbooks			Physics (2014 Edition) by David Homer and Michael Bowen-Jones			
校外学習/Field trip						
授集計画/Course schedule						
		指導項目/Topic	指導內容/Contents	評価の方法・基準/Evaluation method and criteria	予定時数/ Alotted hours	
er	4 月	Internal Assessment	Internal Assessment	Paper 3 type data-based questions, practical work	32	
1学期/1st semeste	5 月	Internal Assessment	Internal Assessment	Paper 1 and Paper 2 types of questions, practical work	46	
1学期/1	6 月	Revision	Revision	Paper 1 and Paper 2 types of questions, practical work	46	
	, 月	Revision	Revision Revision	Paper 1 and Paper 2 types of questions, practical work Paper 1 and Paper 2 types of	16 38	
	9 月			questions, practical work		
semester	10 月	Revision	Revision	Paper 1 and Paper 2 types of questions, practical work	38	
2学期/2nd semester	11 月	Final Examination	Final Examination	Paper 1 and Paper 2 types of questions, practical work	12	
	12 月					
nester	1 月					
3学期/3rd semester	2 月					
3学其	3 月					

総授業時数/Total hours