

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	Science
科目 / Course Title	Chemistry Higher Level (HL)
学年・クラス / Year・Class	3 (IBDP 2nd Year)
単位数 / credits	6

科目概要情報 / Course description

講座概要 / Course description	Chemistry is a branch of science that deals with structure, composition and properties of matter found in living and non-living organisms. Chemistry concepts are usually characterized by interactions of atoms at the atomic and molecular level. It is central to the study of physical environments and biological system and as such the course carries an underlying content of Biology and Physics in addition to the chemistry content. The course involves consolidating content with practical experiments.
到達目標 / Course objectives	1. Appreciate scientific study and creativity within a global context through stimulating and challenging opportunities 2. Acquire a body of knowledge, methods and techniques that characterize science and technology 3. Apply and use a body of knowledge, methods and techniques that characterize science and technology 4. Develop an ability to analyse, evaluate and synthesize scientific information 5. Develop a critical awareness of the need for, and the value of, effective collaboration and communication during scientific activities 6. Develop experimental and investigative scientific skills including the use of current technologies 7. Develop and apply 21st century communication skills in the study of science 8. Become critically aware, as global citizens, of the ethical implications of using science and technology 9. Develop an appreciation of the possibilities and limitations of science and technology 10. Develop an understanding of the relationships between scientific disciplines and their influence on other areas of knowledge.
評価方法と評価基準 / Evaluation method and criteria	Lab Reports, Assignments, Class Activities, Tests
教科書 / Textbooks	Oxford IB Diploma Programme Chemistry
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	Internal Assessment	Internal Assessment	Class activities, Assignments and Tests	20
	5月	Internal Assessment	Internal Assessment	Class activities, Assignments, Test and Experiments	25
		Biochemistry	Proteins and enzymes Lipids Carbohydrates		
		Biochemistry	Vitamins Biochemistry and environment Proteins and enzymes Nucleic acids		
7月	Biochemistry	Biological pigments		15	
2学期 / 2nd semester	9月	Revision	Revision	Class activities, Assignments and Tests	30
	10月	Revision	Revision		30
	11月	Final exam			18
	12月	Reflection of the entire program	Reflection		15
3学期 / 3rd semester	1月	Reflection of the entire program	Reflection	Class activities, Assignments, Test and Experiments	15
	2月	Reflection of the entire program	Reflection		15
	3月	Reflection of the entire program	Reflection		15

総授業時数 / Total hours

228