

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7年度 (2025 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 Program)
教科 (Subject Area)	Science
科目 (Subject)	Biology Higher Level (SL)
学年・クラス (Grade・Class)	3 (IBDP 2nd year)
単位数 (Number of units)	
使用教科書 (Text Books)	Hodder IB Diploma Programme Biology 2023 Edition
校外学習 (Field trip)	

○ 教科の目標 (Goals of the subject area)

<p>【知識及び技能】 (Knowledge and Skills)</p> <ul style="list-style-type: none"> acquire a body of knowledge, methods and techniques that characterize science and technology develop an understanding of the relationships between scientific disciplines and their influence on other areas of knowledge. <p>【思考力、判断力、表現力等】 (Ability to think, make judgements, express themselves)</p> <ul style="list-style-type: none"> 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 <p>【学びに向かう力、人間性等】 (Motivation to learn, Humanity)</p> <ul style="list-style-type: none"> appreciate scientific study and creativity within a global context through stimulating and challenging opportunities develop a critical awareness of the need for, and the value of, effective collaboration and communication during scientific activities

○ 科目の目標 (Goals of the subject)

【知識及び技能】 (Knowledge and Skills)	【思考力、判断力、表現力等】 (Ability to think, make judgements, express themselves)	【学びに向かう力、人間性等】 (Motivation to learn, Humanity)
Demonstrate knowledge and understanding of: a. facts, concepts and terminology b. methodologies and techniques c. communicating scientific information	Apply: a. facts, concepts and terminology b. methodologies and techniques c. methods of communicating scientific information.	Demonstrate the appropriate research, experimental, and personal skills necessary to carry out insightful and ethical investigations.

○ 授業計画 (Course schedule)

Allocated hours

	単元の具体的な指導目標 Unit Objectives	指導項目・内容 Topic / Contents	評価規準 Evaluation Criteria	知	思	態	配当 時数
				①	②	③	
1学期 (1st semester)	<p>【Knowledge and Skills】 Demonstrate and effectively communicate knowledge and understanding of facts, concepts, terminologies, and techniques connected to the content of the unit. 【Ability to think, make judgements, express themselves】 Formulate, analyse, evaluate and effectively communicate research questions, hypotheses, techniques, and data essential to the content. 【Motivation to learn, Humanity】 Apply and effectively communicate knowledge and understanding of facts, concepts, terminologies, and techniques essential to the content. Demonstrate experimental and personal skills by engaging in practical activities and working collaboratively with others.</p>	<p>Contents: ・ A brief overview of the topic and its importance - what is the concept being studied ・ Statement of the main research question of the experiment including the independent and dependent variables ・ A description of the physics behind the main concept, the main method used to measure the concept of interest including equation ・ The independent, dependent and control variables are clearly defined ・ A clear and concise methodology is presented ・ Results, which can include tables, graphs and calculations, are neatly presented and well-organized importance ・ A discussion of the results (e.g trends in the graphs and how it relates to the physics concepts) ・ A conclusion which should be drawn from the discussion is stated ・ A critical evaluation of the results of the experiment and how they could be improved is presented Teaching materials: ・ Consultation with the teacher</p>	<p>● 【Knowledge/Skills】 ・ Based on the different criteria of an IA, a rubric is used. ● 【Ability to think/make judgements/express themselves】 ・ Based on the different criteria of an IA, a rubric is used. ● 【Attitude towards learning proactively】 ・ Reflection</p>				21
	<p>【Knowledge and Skills】 Demonstrate and effectively communicate knowledge and understanding of facts, concepts, terminologies, and techniques connected to the content of the unit. 【Ability to think, make judgements, express themselves】 Formulate, analyse, evaluate and effectively communicate research questions, hypotheses, techniques, and data essential to the content. 【Motivation to learn, Humanity】 Apply and effectively communicate knowledge and understanding of facts, concepts, terminologies, and techniques essential to the content. Demonstrate experimental and personal skills by engaging in practical activities and working collaboratively with others.</p>	<p>Topic: Mock Exam Revision Contents: All Topics Teaching materials: ・ Text book, Powerpoint slides, lab equipment, ICT resources, Past Examination papers</p>					20
	定期考査 Examination				○	○	

	単元の具体的な指導目標 Unit Objectives	指導項目・内容 Topic / Contents	評価規準 Evaluation Criteria	知 ①	思 ②	態 ③	担当 時数
2学期 (2nd semester)	<p>【Knowledge and Skills】</p> <p>Demonstrate and effectively communicate knowledge and understanding of facts, concepts, terminologies, and techniques connected to the content of the unit.</p> <p>【Ability to think, make judgements, express themselves】</p> <p>Formulate, analyse, evaluate and effectively communicate research questions, hypotheses, techniques, and data essential to the content.</p> <p>【Motivation to learn, Humanity】</p> <p>Apply and effectively communicate knowledge and understanding of facts, concepts, terminologies, and techniques essential to the content.</p> <p>Demonstrate experimental and personal skills by engaging in practical activities and working collaboratively with others.</p>	<p>Topic: Final Exam Revision</p> <p>Contents: All Topics</p> <p>Teaching materials: •Text book, Powerpoint slides, lab equipment, ICT resources, Past Examination papers</p>	<p>①【Knowledge/Skills】</p> <p>•Class quiz /tests, Multiple Choice Examination, Extended Response Examination.</p> <p>②【Ability to think/make judgements/express themselves】</p> <p>•Examination, Lab report, Data Based Questions, Short Answer Examination.</p> <p>③【Attitude towards learning proactively】</p> <p>•Reflections and student evaluations on lessons/activities, Homework, Class Presentation, Lab protocols (skills/preparation/safety), Class participation/input</p>	○	○	○	47
	定期考査 Examination			○	○		1
3学期 (3rd semester)	<p>Revision</p> <p>【Knowledge and Skills】</p> <p>• Gain a better understanding of key physics concepts across other physics topics</p> <p>• Develop good time management skills both in preparing for the final examination and when taking the examination</p> <p>Develop an effective planning strategy on how to go about preparing for the IBDP final examination</p> <p>【Ability to think, make judgements, express themselves】</p> <p>• Be able to use the concepts in discussing/explaining the answers</p> <p>• Be able to analyze a problem well and know the appropriate relationships /formulas in solving a problem</p> <p>【Motivation to learn, Humanity】</p> <p>• Engages actively in the revisions</p> <p>• Work collaboratively with other classmates during the revisions</p>	<p>Topic: Whole course Revision</p> <p>Contents: All Topics</p> <p>Teaching materials: •Text book, Powerpoint slides, lab equipment, ICT resources, Past Examination papers</p>		○	○	○	23
	定期考査 Examination			○	○		1

総授業時数 Total hours	114
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