

DYISH Subject Syllabus

First Semester, Academic Year 2023-2024

Subject: DP1 Biology (SL)

Periods per week	3 hours
Teacher	Rita Chien
Textbook/Teaching Materials	- Oxford IB Diploma Programme (2014 edition) - Campbell Biology Concepts and Connections (2022, Pearson) - Inthinking (Biology) -https://www.thinkib.net/biology - Miller & Levine Biology core edition - Life iScience © 2012 - McGraw Hill eTeacher resources - Human anatomy: https://human.biodigital.com/
Formative assessment	- Worksheet, wordwall activity, graph drawing, data analysis, discussion, presentation, paper models - Virtual lab work, actual lab work
Summative assessment	- SA1: 40% - SA2: 40% - Laboratory report: 20%

Please consider how to develop learner profile, ATL, and TOK connections in your lesson plans.

Week	Dates	Teaching Unit	Assessment	Notes
1	8/30-9/1	Course introduction and class rules Biology guide overview	Create a LINE group Decide assistants	8/30 School starts
2	9/4-09/8	A1.1 Water	p.2~12 HW: p.15 (1.a.b.; 2.a.)	
3	9/11-9/15	D2.3 Water potential	p.648~657 HW: p.661 (2.a.)	
4	9/18-9/22	B1.1 Carbohydrates and lipids	p.178~194	9/23 Workday
5	9/25-9/29	B1.1 Carbohydrates and lipids Activity: Macromolecules paper model	p.178~194 HW: p.194 (2.a.) Quizzes	9/29 Holiday
6	10/2-10/6	B1.2 Proteins	p.195~200 HW: p.207 (1.b.)	
7	10/9-10/13	A1.2 Nucleic acids Activity: Making DNA molecule model (Lab: DNA extraction)	p.16~25 HW: p.31 (1.c.)	10/9-10/10 Holiday 10/11-13/ First Midterm (Regular Department)
8	10/16-10/20	A2.2 Cell structure	p.49~73 HW: p.79 (1.a.b.c.; 2.a.b.)	
9	10/23-10/27	A2.2 Cell structure B2.1 Membranes and membrane transport	p.49~73 p.211~220	
10	10/30-11/3	B2.1 Membranes and membrane transport B2.2 Organelles and compartmentalization	p.211~220 HW: p.228 (2.b.) p.229~232 HW: p.239 (1.a.; 2.b.)	
11	11/6-11/10	SA 1	Writing exam	11/11 School Sports Meet
12	11/13-11/17	Lab: Microscopy skills / Osmosis experiment	Lab work and worksheet	11/13 Holiday
13	11/20-11/24	B2.3 Cell specialization Activity: SA/V practice	p.240~245 HW: p.251 (1.a.; 2.b.)	11/20 Midterm Grade Deadline 11/22 Progress

				Report Issuance
14	11/27-12/1	D.2.1 Cell and nuclear division (mitosis/meiosis) Activity: Calculation of mitotic index	p.609~628 HW: p.635 (1.a.c.; 2.a.)	11/27-29 Second Midterm (Regular Department)
15	12/4-12/8	C1.1 Enzymes and metabolism	p.339~353 HW: p.360 (1.c.)	
16	12/11-12/15	Lab: Enzyme activity (catalase)	Lab work and worksheet	
17	12/18-12/22	C1.2 Cell respiration	p.361~370 HW: p.382 (1.b.; 2.c.)	
18	12/25-12/29	Lab: Cellular respiration (yeast)	Lab work and worksheet	
19	1/1-1/5	C1.3 Photosynthesis	p.384~395 HW: p.409 (2.c.)	1/1 Holiday
20	1/8-1/12	Lab: Chloroplast chromatography	Lab work and worksheet	
21	1/15-1/19	SA 2	Writing exam	1/17-18 Final Exam (Regular Department) 1/19 Closing Ceremony
22	1/22-1/26	-	-	
23	1/29-2/2	-	-	2/2 Tern Grade And Comments Deadline on ManageBac 2/6 Term Report Issuance