

IB Biology SL (Y1_S2)

NOTE: This page is subject to change without notice. Please check back regularly for updates.

AP = Academic Practice (Complete/Incomplete and Good/Partial/Limited)

FA = Formative Assessment (7-Excellent, 6-Very Good, 5-Good, 4-Satisfactory, 3-Limited, 2-Poor, 1-Very Poor)

SA = Summative Assessment (7-Excellent, 6-Very Good, 5-Good, 4-Satisfactory, 3-Limited, 2-Poor, 1-Very Poor)

Week		Content	In Class	Homework
Topic 3: Genetics				
Jan.9-13 (Sem.1)	1	Exam Review		
	2	Exam Review		
	3	3.1 Genes		Read p.119-128
Jan.16-20 (Sem.1)	1	3.1 Genes	AP: Genes, Alleles and Mutations Act: Comparing A.A. Sequences	
	2	3.1 Genes	Act: Examining the HBB Mutation	
	3	3.1 Genes	Vid: Cracking the Code of Life by PBS	Read p.128-133
Jan.23-27	1	3.2 Chromosomes	AP: The Human Genome	Read p.135-138
	2	3.2 Chromosomes	FA: 3.1 Genes AP: Prokaryotes vs. Eukaryotes Act: Make a Karyotype Act: Karyotype Analysis	Read p.138-141
	3	3.2 Chromosomes	AP: Karyotyping	
Jan.30-Feb.3	1	3.3 Meiosis	FA: 3.2 Chromosomes Vid: Meiosis by Medical Institution	Read p.142-147
	2	3.3 Meiosis	AP: Meiosis Act: Meiosis Stop Motion	Watch Meiosis by the Amoeba Sisters
	3	3.3 Meiosis	Act: Meiosis Stop Motion	
Feb.6-10	1	3.4 Inheritance	FA: 3.3 Meiosis Vid: Mendel's Pea Plants by TED-Ed Act: Punnett Squares	Read p.150-156 Watch Monohybrids by Amoeba Sisters Practice
	2	3.4 Inheritance	AP: Mendelian Genetics Vid: Punnett Squares and Sex-Linked Traits by Amoeba Sisters	Read p.156-160 Practice
	3	3.4 Inheritance	AP: Advanced Genetics Act: Blood Typing Game Act: Drag-and-Drop Pedigree	Read p.161-162 Practice
Feb.13-17	1	3.4 Inheritance	AP: Pedigrees	Read p.163-165 AP: Genetic Irregularities
	2	Performance of HS Musical		
	3	3.4 Inheritance	FA: 3.4 Inheritance	
Feb.20-24	1	Ski Break		
	2	Ski Break		
	3	Ski Break		
Feb.27-Mar.3	1	3.5 GMOs and Biotech.	Tut: Gel Electrophoresis VL: Gel Electrophoresis (DNA Profiling) Vid: Polymerase Chain Reaction	Read p.166-170
	2	3.5 GMOs and Biotech.	AP: Copying and Analyzing DNA Vid: DNA Fingerprinting Act: Gel Electrophoresis	
	3	3.5 GMOs and Biotech.	VL: Bacterial Transformation	Read p.170-174
Mar.6-10	1	3.5 GMOs and Biotech.	AP: Gene Modification Act: Gene Transfer	
	2	3.5 GMOs and Biotech.	Act: Click and Clone (SCNT)	Read p.174-177

			Vid: SCNT for real or by animation	
	3	Review - Topic 3	FA: 3.5 GMOs and Biotechnology	
Mar.13-17	1	Test - Topic 3		
	2	School Holiday		
	3	PD Day		
Topic 4: Ecology				
Mar.20-24	1	4.1 Ecosystems		Read p.182-186
	2	4.1 Ecosystems	AP: Species and Populations	Read p.187-194
	3	4.2 Energy Flow	AP: Communities and Ecosystems Vid: Perpetual Motion Machine (TED Ed) WS: Chi-Squared Tests Act: The Case of the Careless Zookeeper	Read p.195-199
Mar.27-31	1	4.2 Energy Flow	AP: Energy Transfer in Food Chains WS: Food Chains and Food Webs Act: Practice Questions (1-10)	Read p.199-201
	2	4.3 Carbon Cycling	AP: Modeling Biomass and Energy VL: Global Carbon Fluctuations	Read p.202-205
	3	4.3 Carbon Cycling	FA: 4.1 & 4.2 Ecosystems and Energy AP: Carbon Cycling	Read p.205-211
Apr.3-7	1	4.4 Climate Change	AP: Fossil Fuels	Read p.215-220
	2	4.4 Climate Change	AP: The Greenhouse Effect VL: Investigating the Greenhouse Effect Vid: Optimism on Climate Change	Read p.220-224
	3	Review - Topic 4	AP: Human Influence & Climate Change FA: 4.3 & 4.4 Carbon and Climate Change	
Apr.10-14	1	Test - Topic 4		
	2	Parent Conferences		
	3	School Holiday		
Apr.17-21	1	Spring Break		
	2	Spring Break		
	3	Spring Break		
Topic C: Ecology and Conservation				
Apr.24-28	1	C.1 Species and Communities	Res: Distribution of a Plant and Animal VL: Population Biology (Limiting Factors)	Read p.424-429
	2	C.1 Species and Communities	AP: Limiting Factors and Distribution	Read p.430-434
	3	C.1 Species and Communities	AP: Species Interactions	Read p.435-440
May 1-5	1	C.2 Communities and Ecosystems	AP: Niches and Competitive Exclusion Prac: Calculating Productivity VL: Measuring Productivity	Read p.441-450
	2	C.2 Communities and Ecosystems	AP: Measuring Productivity	Read p.450-462
	3	C.2 Communities and Ecosystems	FS: Succession Study (dress for outside) Vid: Ecological Succession (Bozeman) WS: Constructing Climographs Act: Succession in Communities	
May 8-12	1	C.3 Human Impact	AP: Succession and Biomes Act: Awareness Campaign Poster	Read p.463-465, 470-472
	2	Group IV Project		
	3	C.3 Human Impact	FA: C1 & C2 Species, Communities and Ecosystems AP: Biological Control Act: Awareness Campaign Poster	Read p.465-470

May 15-19	1	C.4 Conservation and Biodiversity	AP: Biomagnification and Microplastics Act: Display Awareness Campaign Posters	Read p.477-483
	2	C.4 Conservation and Biodiversity	AP: Measuring Biodiversity Lab: Measuring & Comparing Biodiversity (dress for outside)	
	3	C.4 Conservation and Biodiversity		Read p.486-489
May 22-26	1	C.4 Conservation and Biodiversity	AP: Factors Affecting Biodiversity Vid: Ferret Babies Key (Nat.Geo.)	Read p.483-486
	2	Review - Option C	AP: Conserving Biodiversity FA: C.3 & C.4 Human Impact and Conservation	
	3	Test - Option C		
May 29-Jun.2	1	Exam Prep	Exam Prep Sheet	
	2	Exam Prep		
	3	Exam Prep		
Jun.5-9	1	Exam Prep		
	2	Exam Prep		
	3	Exams		
Jun.12-16	1	Bio. Exam @ 1:00 - 3:00 pm in Auxi Gym		
	2	Exams		
	3	Last Day of School		