

IB Biology HL - Y1_S1 Prep Sheet

Exam Details:

Date - Tuesday, December 12, 2017

Time - 13:00 - 15:00

Location - Auxi Gym

Format Guide:

Paper	Question Type	Number of Questions	Number of Marks	Number of Minutes
1	Multiple Choice*	35	35	45
2/3	Short Answer & Free Response	13 (multiple parts)	50	75

*The Multiple Choice section of the exam is to be answered on the accompanying answer sheet.

Areas of Focus:

Topic 4 - Ecology Practice Qs (p.214-215)

4.1 - Species to Ecosystems (p.171-184)

p.176-177 Challenge Yourself (Interdependence)
p.178 Fieldwork (Quadrat Sampling)
p.179-180 Worked Example (Chi Squared)
p.182 Challenge Yourself (Feeding Methods)
p.183 Fieldwork (Mesocosms)
p.184 Exercises

4.2 - Energy Flow (p.184-190)

p.189 Worked Example (Pyramid of Energy)
p.190 Exercises

4.3 - Carbon Cycling (p.191-202)

p.201 Challenge Yourself (System Diagram)
p.201 Exercises
p.202 Worked Example (Graph Analysis)

4.4 - Climate Change (p.203-)

p.207 Challenge Yourself (Graph Analysis)
p.213 Challenge Yourself (Carbon Footprint)
p.214 Exercises

Topic 2 - Molecular Biology Practice Qs (p.110)

2.1 - Molecules to Metabolism (p.51-60)

p.53 Challenge Yourself (Identifying Macromolecules)
p.59-60 Challenge Yourself (Drawing Macromolecules)
p.60 Exercises p.60

2.2 - Water (p.61-67)

p.67 Exercises

2.3 - Carbohydrates and Lipids (p.67-74)

p.74 Challenge Yourself (Calculating BMI)
p.74 Exercises

2.4 - Proteins (p.74-80)

p.77 Challenge Yourself (Amino Acids)
p.80 Exercises p.80

2.5 - Enzymes (p.80-85)

p.84-85 Fieldwork (Enzyme Activity)
p.85 Exercises

O.C - Ecology & Conservation Practice Qs (p.713-715)

C.1 - Species & Communities (p.640-652)

p.646 Challenge Yourself (Food Chains)
p.649 Challenge Yourself (Interactions)
p.650-651 Challenge Yourself (Niches)
p.652 Exercises

C.2 - Communities & Ecosystems (p.653-670)

p.658 Challenge Yourself (Trophic Levels)
p.663 Challenge Yourself (Graph Analysis)
p.666 Challenge Yourself (Biomes)
p.667-668 Worked Examples (Gersmehl Diagrams)
p.668 Challenge Yourself (Gersmehl Diagrams)
p.670 Exercises

C.3 - Human Impact (p.671-682)

p.678 Challenge Yourself (Eradication Programs)
p.679-681 Challenge Yourself (Invasive Species)
p.682 Exercises

C.4 - Conservation of Biodiversity (p.682-695)

p.686-688 Fieldwork (Biodiversity)
p.693-694 Challenge Yourself (Graph Analysis)
p.695 Challenge Yourself (Graph Analysis)
p.695 Exercises

C.5 - Population Ecology (p.696-706)

p.699 Challenge Yourself (Data Analysis)
p.701 Fieldwork (Population Growth)
p.702 Worked Examples (Lincoln's Index)
p.706 Challenge Yourself (Graph Analysis)
p.706 Exercises

C.6 - Nitrogen & Phosphorus Cycles (p.707-712)

p.712 Fieldwork (Soil Nutrients)
p.712 Exercises

Topic 8 - Metabolism, Cell Respiration & Photosynthesis

8.1 - Metabolism (p.351-356)

p.355-356 Worked Example (Enzyme Inhibition)
p.356 Exercises

Reminders:

- ❑ Get started preparing **NOW** so that you see everything **OFTEN** and **REPEATEDLY**.
- ❑ Use your notes, the online text and complete the **Challenge Yourself**, **Exercises** and **Practice Qs**.
- ❑ Use the videos available on the course website to help visualize the biological processes.
- ❑ Use your classmates and your teacher as a resource. We are all in this together!
- ❑ GOOD LUCK!! :D