

Year 10 & 11 Biology (Cambridge IGCSE Biology)

	CONTENT OVERVIEW	SUBJECT CONTENT
1	Characteristics and classification of living organisms	Characteristics of living organisms Concept and use of a classification system Features of organisms Dichotomous keys
2	Organisation of the organism	Cell structure and organisation Levels of organisation Size of specimens
3	Movement in and out of cells	Diffusion Osmosis Active transport
4	Biological molecules	Biological molecules
5	Enzymes	Enzymes
6	Plant nutrition	Photosynthesis Leaf structure Mineral requirements
7	Human nutrition	Diet Alimentary canal Mechanical digestion Chemical digestion Absorption
8	Transport in plants	Transport in plants Water uptake Transpiration Translocation
9	Transport in animals	Transport in animals Heart Blood and lymphatic vessels Blood
10	Diseases and immunity	Diseases and immunity
11	Gas exchange in humans	Gas exchange in humans
12	Respiration	Respiration Aerobic respiration Anaerobic respiration
13	Excretion in humans	Excretion in humans
14	Coordination and response	Nervous control in humans Sense organs Hormones in humans Homeostasis Tropic responses
15	Drugs	Drugs Medicinal drugs Misused drugs
16	Reproduction	Asexual reproduction Sexual reproduction Sexual reproduction in plants Sexual reproduction in humans Sex hormones in humans Methods of birth control in humans Sexually transmitted infections (STIs)
17	Inheritance	Inheritance Chromosomes, genes and proteins Mitosis Meiosis Monohybrid inheritance
18		Variation

	Variation and selection	Adaptive features
		Selection
19	Organisms and their environment	Energy flow
		Food chains and food webs
		Nutrient cycles
		Population size
20	Biotechnology and genetic engineering	Biotechnology and genetic engineering
		Biotechnology
		Genetic engineering
21	Human influences on ecosystems	Food supply
		Habitat destruction
		Pollution
		Conservation

Details of the assessment	
Core Assessment	Extended Assessment
Paper 1 – Multiple Choice (Core) 45 mins, 40 mks	Paper 2 – Multiple Choice (Extended), 45 mins, 40 mks
Paper 3 – Theory (Core) 1 h 15 mins, 80 mks	Paper 4 – Theory (Extended), 1 h 15 mins, 80 mks
Paper 6 – Alternative to Practical Test, 1 h, 40 mks	Paper 6 – Alternative to Practical Test, 1 h, 40 mks

Grading and reporting:

Grades A*, A, B, C, D, E, F or G indicate the standard a candidate achieved.

A* is the highest and G is the lowest.