

Anglo – Chinese School (Independent)

International Baccalaureate Diploma Programme

Course outline – Year 5 Biology Higher Level

Theme	Topic	Title
A	1.1	Water
	1.2	Nucleic acid
	2.1	Origins of cells (HL)
	2.2	Cell structure
	2.3	Viruses (HL)
	3.1	Diversity of organisms
	3.2	Classification and cladistics (HL)
	4.1	Evolution and speciation
	4.2	Conservation of biodiversity
B	1.1	Carbohydrates and lipids
	1.2	Proteins
	2.1	Membranes and membrane transport
	2.2	Organelles and compartmentalization
	2.3	Cell specialization
	3.1	Gas exchange
	3.2	Transport
	3.3	Muscle and motility (HL)
	4.1	Adaptation to environment
	4.2	Ecological niches
C	1.1	Enzymes and metabolism
	1.2	Cell Respiration
	1.3	Photosynthesis
	2.1	Chemical signalling (HL)
	2.2	Neural signalling
	3.1	Integration of body systems
	3.2	Defence against diseases
	4.1	Populations and communities
	4.2	Transfers of energy and matter
D	1.1	DNA replication
	1.2	Protein synthesis
	1.3	Mutations and gene editing
	2.1	Cell and nuclear division
	2.2	Gene expression (HL)
	2.3	Water potential
	3.1	Reproduction
	3.2	Inheritance
	3.3	Homeostasis
	4.1	Natural Selection
	4.2	Stability and change
	4.3	Climate change