

IB Biology @ HLG: Course Outline (Exams 2023)

Semester	IB	Abitur	TOK (work in progress)
S1	Topic 1: Cell Biology Topic 2: Molecular Biology Topic 3: Genetics	Molekulargenetik und Gentechnik	Topic 3: <ul style="list-style-type: none"> - How can we distinguish between a causal link and a correlation? (sickle cell anaemia and malaria) - Paradigm shift: How and why are new ideas accepted within the scientific community? - How do we assess the reliability of scientific evidence?
S2	Topic 4: Ecology Option C: Ecology and Conservation Group 4 Project	Ökologie und Nachhaltigkeit	Topic 4: <ul style="list-style-type: none"> - The precautionary principle: Should there be ethical constraints on the pursuit of scientific knowledge? - How reliable is the principle of random sampling?
S3	Practical Activities Individual Investigation Topic 6: Human Physiology	Neurobiologie und Selbstverständnis	<ul style="list-style-type: none"> - How do we justify the uniqueness of the human species? - Does determinism in neuroscience allow for a free will?
S4	Topic 5: Evolution and Biodiversity	Evolution und Zukunftsfragen	<ul style="list-style-type: none"> - Karl Popper and falsification: What does it take to develop a scientific theory? (Darwin's theory of natural selection) - Have the scientists replaced the priests?