

Biology 1 CP & H - Curriculum Map

Days/Dates	Standards/ Indicators	Content
Introduction to Biology (3 days)	None	<ul style="list-style-type: none"> • Lab Safety • Pre-Assessment • Common Themes in Biology
Biochemistry (5 days)	H.B.2A.1 H.B.2A.2	<ul style="list-style-type: none"> • Atomic Structure / Reactions • Carbohydrates, Lipids, Proteins • Introduce Nucleic Acids • Enzymes
Cells – Part 1 (7 days)	H.B.2B.1 H.B.2C.2 H.B.2B.2 H.B.2C.3 H.B.2C.1	<ul style="list-style-type: none"> • Cell Theory • Organelles • Viruses • Cell Membrane / Transport
Cells – Part 2 (7 days)	H.B.2D.1 H.B.2D.2 H.B.2D.3 H.B.2D.4	<ul style="list-style-type: none"> • Cell Differentiation • Cell cycle • Cancer • Stem Cells / Biotechnology of
Cell Energy (6 days)	H.B.3A.1 H.B.3A.2 H.B.3A.3 H.B.3A.4 H.B.3A.5	<ul style="list-style-type: none"> • ATP - ADP Cycle • Photosynthesis • Cellular Respiration • Fermentation
Heredity – Part 1 (8 days)	H.B.4A.1 H.B.4C.1 H.B.4C.2 H.B.4C.3	<ul style="list-style-type: none"> • DNA / Genes / Chromosomes • Meiosis • Mendelian Genetics, Mendel's Laws • Exceptions-Codominance, incomplete dominance, polygenic multiple alleles • Pedigrees
Heredity – Part 2 (14 days)	H.B.4A.2 H.B.4B.2 H.B.4B.1 H.B.4D.1	<ul style="list-style-type: none"> • DNA → Protein • Biotechnology • Mutations
Evolution (10 days)	H.B.5.1 H.B.5.2 H.B.5.3 H.B.5.4 H.B.5.5 H.B.5.6 H.B.5.7 H.B.5.8	<ul style="list-style-type: none"> • Evidences of Evolution • Genetic Drift • Nonrandom mating • Mutations • Gene flow • Natural selection • Speciation • Patterns of Evolution • Phylogeny / Phylogenetic Trees
Ecology (9 days)	H.B.6A.1 H.B.6A.2 H.B.6B.1 H.B.6B.2 H.B.6C.1 H.B.6D.1	<ul style="list-style-type: none"> • Relationships • Succession • Geochemical cycles • Maintaining ecosystems • Human impact

