KEVI CAMP HILL SCHOOL FOR GIRLS

BIOLOGY

CURRICULUM MAP (YEARS 7-13)

KING EDWARD VI CAMP HILL SCHOOL FOR GIRLS

Educational excellence for our City

	AUTUMN TERM	SPRING TERM	SUMMER TERM
YEAR 7	**Biology is taught as part of KS3 Science** Biology content: • Cells and organization • Movement	**Biology is taught as part of KS3 Science** Biology content: • Variation • Human reproduction	**Biology is taught as part of KS3 Science** Biology content: • Ecology • Plant reproduction
YEAR 8	**Biology is taught as part of KS3 Science** Biology content: • Digestion • Breathing	**Biology is taught as part of KS3 Science** Biology content: • Respiration • Photosynthesis	**Biology is taught as part of KS3 Science** Biology content: • Evolution • Inheritance
YEAR 9	• Cell structure and microscopes • Cell division, Mitosis and stem cells	• Diffusion and exchange surfaces • Osmosis and active transport	• Digestion and enzymes • Adaptation and interdependence in Ecosystems
YEAR 10	• Heart and circulation, lungs and breathing • Non-communicable disease • Plant transport	• Infection and response • Communicable disease • Culturing micro-organisms • Monoclonal antibodies • Plant disease	• Bioenergetics: Photosynthesis • Respiration and exercise • Ecology and investigation techniques • Evolution, natural selection and classification
YEAR 11	• Ecology: energy transfers, nutrient cycles • Human effects on the environment • Nervous system • Homeostasis endocrine system and plant hormones	• Homeostasis – temperature, glucose and kidney • Reproductive hormones & contraceptives • DNA and protein synthesis	• Meiosis • Inheritance • DNA technology • Final exams
YEAR	• Biological Molecules • Enzymes	• DNA • Protein synthesis	• Energy Transfer in ecosystems • Nutrient Cycles

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12	• Cell Structure • Microscopes • Cell transportation • Immunity • Gaseous Exchange	• Variation • Lungs and disease • Genetic diversity, Natural selection and Classification • Heart and Circulation • Plant transport	• Applications of DNA Technology • Energy transfer in the Ecosystem and nutrient cycles
YEAR 13	• Populations in ecosystems • Ecological Techniques • Succession • Inheritance and selection • Gene Regulation	• Photosynthesis • Respiration • Stimulus and Response • Neurons and Muscles • Homeostasis	• Essay practice • Revision and final exam