

Key Stage 3 : Curriculum Information for Biology

Year	Autumn Term			Spring Term		Summer Term
7	Unit 1 Plants Topics Include: <ul style="list-style-type: none"> Plant parts Leaf parts photosynthesis Transpiration Key Skills: <ul style="list-style-type: none"> Using a microscope Drawing leaves 	Unit 2 Humans Topics Include: <ul style="list-style-type: none"> Skeletons Muscles Organ systems The circulatory systems Key Skills: <ul style="list-style-type: none"> Safe laboratory behaviour Dissection of a chicken wing 	Unit 3 Cells and organisms Topics Include: <ul style="list-style-type: none"> Characteristics of life Microscopes Animal and Plant cells Specialised Cells Key Skills: <ul style="list-style-type: none"> Using a microscope Slide preparation Drawing cells magnification 	Unit 4 Living Things in their environment Topics Include: <ul style="list-style-type: none"> Habitats Food chains & webs Feeding ourselves Changing the planet Preventing Extinction Obtaining energy Key Skills: <ul style="list-style-type: none"> Graphing Calculation of energy loss 	Unit 5 Classification Topics Include: <ul style="list-style-type: none"> Species Classification Vertebrates Plants Key Skills: <ul style="list-style-type: none"> Microscope Graphing Drawing specimens magnification 	Unit 3 Cells and organisms Topics Include: <ul style="list-style-type: none"> Microbes Louis Pasteur Useful and harmful microbes Key Skills: <ul style="list-style-type: none"> Safe laboratory behaviour Microscope

Checkpoint KS3 biology Coursebook and workbook are used for Year 7-9 and students keep their books for the 3 years.

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Year	Autumn Term		Spring Term		Summer Term
8	Unit 7 Diet	Unit 8 Digestion	Unit 9 Circulation	Unit 9 Circulation	Unit 10
	<u>Topics Include:</u> <ul style="list-style-type: none"> • Nutrient classes • Calculating energy in food • Balanced diet • Food tests • Deficiency disease <u>Key Skills:</u> <ul style="list-style-type: none"> • Safe laboratory behaviour • Combustion of food • Food tests (Benedicts, Biurets, Emulsion & Iodine) • Graphing 	<u>Topics Include:</u> <ul style="list-style-type: none"> • The digestive system • Enzymes • Factors affecting enzymes <u>Key Skills:</u> <ul style="list-style-type: none"> • Enzyme controlled reactions • Graphing 	<u>Topics Include:</u> <ul style="list-style-type: none"> • Blood • Anaemia • Circulatory system • Identifying trends <u>Key Skills:</u> <ul style="list-style-type: none"> • Graphing • Microscope work • Drawing and magnification 	<u>Topics Include:</u> <ul style="list-style-type: none"> • Blood • Anaemia • Circulatory system • Identifying trends <u>Key Skills:</u> <ul style="list-style-type: none"> • Graphing • Microscope work • Drawing magnification 	<u>Topics Include:</u> <ul style="list-style-type: none"> • Lungs • Respiration and gas exchange • Aerobic and anaerobic respiration • Smoking hazards <u>Key Skills:</u> <ul style="list-style-type: none"> • Microscope • Graphing • Drawing specimens • magnification

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Key Stage 3/4: Curriculum Information for Biology

Year	Autumn Term		Spring Term *Begin CIE IGCSE Course		Summer Term
9	Unit 15 Energy Flow <u>Topics Include:</u> <ul style="list-style-type: none"> Food webs Energy Flow Decomposers Changing Populations <u>Key Skills:</u> <ul style="list-style-type: none"> Safe laboratory behaviour Calculation of Energy loss 	Unit 13 Plants <u>Topics Include:</u> <ul style="list-style-type: none"> Photosynthesis The leaf Microscopes Testing for photosynthesis using starch and oxygen as evidence <u>Key Skills:</u> <ul style="list-style-type: none"> Microscope & magnification Photosynthesis Experiments Graphing 	*Cambridge IGCSE Biology Digital Textbook Unit 1 Characteristics of life & Classification <u>Topics Include:</u> <ul style="list-style-type: none"> MRS GREN Classification & Binomial System Features of organisms Dichotomous Keys <u>Key Skills:</u> <ul style="list-style-type: none"> Microscope Graphing Drawing specimens magnification 	Unit 2 Organisation of the organism <u>Topics Include:</u> <ul style="list-style-type: none"> Cell structure and organisation Levels of organisation Specialised cells <u>Key Skills:</u> <ul style="list-style-type: none"> Microscope Graphing Drawing specimens magnification 	Unit 3 Movement in and out of cells <u>Topics Include:</u> <ul style="list-style-type: none"> Diffusion Factors that affect diffusion Osmosis in animal and plant cells Active Transport <u>Key Skills:</u> <ul style="list-style-type: none"> Microscope Diffusion and osmosis experiments

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