Biology Curriculum Map							
A. Formal Curriculum Key Stage 4							
Core Content & Skills		By the end of key stage FOUR we want all students of Biology to know and do the following things: Think like a 'scientists' - question rather than blindly accept. Have a broad understanding of the key concepts and process in a wide range of biological areas, including molecular biology, cell biology, genetics, biochemistry, physiology, ecology, and evolution. Plan and evaluate their own investigations, questioning the validity of their approach and providing insights for further improvement of scientific technique.					
Prior Knowledge & Skills		In KS4, students of Biology will build on the following prior learning: A basic understanding of the structure and function of specialised cells, how these fit into the wider functioning of whole organisms (including specific examples) as well as basics of ecology including food webs and sampling techniques. Pupils will have been encouraged to question ideas rather than blindly accept them, beginning the process of scientific thinking and an appreciation of the value of debate. Pupils will have started to plan their own investigations and begun to develop their evaluation skills.					
Future knowledge		The Curriculum in KS4 Biology will prepare students for the following future learning: knowledge of key processes within eukaryotic and prokaryotic organisms; develop knowledge of microbiology and genetics, research and wider reading independently; synoptic thinking including links between sciences; critical analysis of data; building in-depth knowledge of the Biological World. Pupils will be expected to become competent in planning, conducting and evaluating a range of investigations, including the use of relevant statistical tests.					
Year 11	Key knowledge, skills and concepts TAUGHT, REVISED, REVISITED AND LEARNT	Term 1 Sampling practicals Inheritance	Term 2 Variation and Evolution Energy Flows	Term 3	Term 4 Biodiversity and Human Interaction	Term 5 Food Production (triple only) Review and Revision (combined)	Term 6 Study Leave
	Key assessment points		Mock GCSEs		Departmental 'mini mocks'		
Year 10	Key knowledge, skills and concepts TAUGHT, REVISED, REVISITED AND LEARNT	Term 1 Respiration Health and Circulation	Term 2 Communicable Disease (+MABs for triple)	Term 3 Homeostasis and Nerves	Term 4 Homeostasis and Hormonal Control	Term 5	Term 6 Adaptations and Classification
	Key assessment points		Departmental exams		Y10 School Exams		
Year 9	Key knowledge, skills and concepts TAUGHT, REVISED, REVISITED AND LEARNT	Term 1 Cell Structure	Term 2 Cell Division	Term 3 Transport in Cells	Term 4 Enzymes and Digestion	Term 5 Enzymes and Digestion Photosynthesis	Term 6 Photosynthesis
	Key assessment points		End of topic test	Y9 school exams		Departmental Exam	

B. Holistic development via Enrichment/Personal Development Curriculum
-

Biology Curriculum Map							
A. Formal Curriculum Key Stage 3							
Core Content & Skills		By the end of key stage 3 we want all students of Biology to know and do the following things: A basic understanding of the structure and function of specialised cells, how these fit into the wider functioning of whole organisms (including specific examples) as well as basics of ecology including food webs and sampling techniques. Pupils will be encouraged to question ideas rather than blindly accept them, beginning the process of scientific thinking and an appreciation of the value of debate. Pupils will start to plan their own investigations, allowing them to take ownership of their studies.					
Prior Knowledge & Skills		In KS3, students of Biology will build on the following prior learning: At KS2, pupils should have built up a body of key foundational knowledge and concepts, been encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. They should have been encouraged to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes.					
Future knowledge		The Curriculum in KS3 Biology will prepare students for the following future learning: Thinking like a 'scientists' - questioning rather than blindly accepting. Developing a broad understanding of the key concepts and process in a wide range of biological areas, including molecular biology, cell biology, genetics, biochemistry, physiology, ecology, and evolution. Development of practical skills including planning, evaluation and analysis.					
Year 8	Key knowledge, skills and concepts TAUGHT, REVISED, REVISITED AND LEARNT	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
		Variation Reproduction			Respiration Investigation Project – to include learning around sampling techniques		
	Key assessment points						
Year 7	Key knowledge, skills and concepts TAUGHT, REVISED, REVISITED AND LEARNT	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
		Cell Structure Organ Systems and Health			Nutrition Food Webs and Photosynthesis		
	Key assessment points						
B. Holistic development via Enrichment/Personal Development Curriculum							