Meadow Park School - Curriculum Map 2023-2024							
Key Stage Year Group		Subject	Teacher	Programme of Study			
KS4	Year 11	Science	Trevor Ngawoofah	AQA C	SCSE Biology		
Autumn a		Autumn b	Spring a	Spring b	Summer a	Summer b	
Topic(s)		Topic(s)	Topic(s)	Topic(s)	Topic(s)	Topic(s)	
Homeostasis:		Inheritance:	Variation and Evolution:	Ecology:	Revision and Preparation for Summer exams:	Revision:	
Core Knowledge:		Core Knowledge:	Core Knowledge:	Core Knowledge:	Assessment Task	Assossmont Tasks	
 Core Knowledge: Homeostasis and factors which are controlled within our bodies: water level, temperature & sugar level The human nervous system: 5 step response, neuronal control & feedback Testing reaction times (RP) Human endocrine system & hormones Controlling blood sugar & diabetes Contraception & the hormones involved Human reproduction & the hormones involved 		 Genetic make-up of living organisms – DNA, Chromosomes, genes & alleles Cell Division – meiosis & mitosis Homozygous & heterozygous genotype outcomes from genetic crosses Inherited disorders & chance of inheritance Key concepts and methods of genetic engineering & cloning 	 Darwin's Theory of Evolution define key terms: homozygous, heterozygous, recessive & dominant Interactions between organisms in an ecosystem Identify adaptations of plants and animals 	 Re-visitation of ecosystems, food chains & living organisms Biotic & abiotic factors Habitats of different organisms Biological indicators of pollution in different habitats Food chains and food webs Adaptations of plants & animals Biodiversity & issues with land use, deforestation & global warming 	 Revision of Paper 1 and Paper 2 topics Practice PPQs 	 Revision of Paper 1 and Paper 2 topics Practice PPQs 	
Per Developme	rsonal ent/Careers	Personal Development/Careers	Personal Development/Careers	Personal Development/Careers	Personal Development/Careers	Personal Development/Careers	
Career focus: Nutritional Specialist, Drug and Alcohol Nurse, NHS and Healthcare pathways PD Focus: Health and Well-being Listening, speaking, problem solving, creativity, staying positive, aiming high, leadership, teamwork		Career focus: Clinical Scientist, Geneticist, Genetic Counsellor, IVF specialist, Lab technicians PD Focus: Health and Well-being Listening, speaking, problem solving, creativity, staying positive, aiming high, leadership, teamwork	Career focus: Clinical Scientist, Geneticist, Genetic Counsellor, IVF specialist, Lab technicians PD Focus: Relationships Emphasis placed on social skills with the practical investigation task. Are students able to work in a group, listen to ideas and divide a task up fairly before relaying their findings back to their group	Career focus: Environmental Consultant, Zookeeper, animal care worker, ornithologist, chemosynthesis PD Focus: Relationships Consider the reasons for animals becoming endangered or extinct and what we can do to prevent further cases.	PD Focus: Living in the wider world Listening, speaking, problem solving, creativity, staying positive, aiming high, leadership, teamwork	PD Focus: Living in the wider world Listening, speaking, problem solving, creativity, staying positive, aiming high, leadership, teamwork	
Reading	& Writing	Reading & Writing	Reading & Writing	Reading & Writing	Reading & Writing	Reading & Writing	

 Recording research on maintaining internal conditions clearly spelling key words correctly. Recording observations from practical tasks clearly. Writing in full sentences with correct punctuation to answer open ended questions. 	 Writing in full sentences with correct punctuation to form conclusions and answers to open ended questions. Including correctly spelt key words in descriptions. Applying knowledge of phonics to spell out new words when reading information / methods for practical tasks. 	 Reading factual information on diseases and balanced diets, highlighting key facts and using their skills of inference. Recording observations clearly spelling key words correctly. Writing conclusions using full sentences and using connectives to include explanations. 	 Using deduction to highlight key facts within a text answer short questions. Using inference to form ideas and opinions about research or a concept/ theory. Writing in full sentences with correct punctuation to answer open ended questions. 	 Recording observations clearly spelling key words correctly. Writing conclusions using full sentences and using connectives to include explanations. Applying knowledge of phonics to spell out new words when reading information / methods for practical tasks. 	 Reading factual information on adaptations, highlighting key facts and using their skills of inference. Recording observations clearly spelling key words correctly. Writing in full sentences with correct punctuation to answer open ended questions.
Speaking & Listening	Speaking & Listening	Speaking & Listening	Speaking & Listening	Speaking & Listening	Speaking & Listening
 Listening carefully to methods ahead of practical skills. Verbally sharing ideas about practical results/ listening respectfully to the ideas of others. 	 Listening carefully to methods ahead of practical skills. Verbally sharing ideas about practical results/ listening respectfully to the ideas of others. Verbally explaining the processes in their model of the rock cycle. 	 Listening attentively during verbal explanations recalling the information that has been relayed. Speaking respectfully to their peers when working as a team during the practical investigations. Including key words when verbally explaining results and 	- Listening attentively during verbal explanations recalling the information that has been relayed in video clips.	 Listening carefully to methods ahead of practical skills. Verbally sharing ideas about practical results/ listening respectfully to the ideas of others. 	 Listening attentively during verbal explanations recalling the information that has been relayed in video clips. Verbally sharing ideas about practical results/ listening respectfully to the ideas of others.
Numeracy & Mathematical Reasoning	Numeracy & Mathematical Reasoning	Numeracy & Mathematical Reasoning	Numeracy & Mathematical Reasoning	Numeracy & Mathematical Reasoning	Numeracy & Mathematical Reasoning
- Determining reaction times	 Calculating the probability of inheriting certain physical traits; dominant /recessive alleles Interpreting data to form a conclusion and support key facts. 	- Using deduction to prove or disprove a statement.	- Interpreting and analysing data to answer questions on population numbers.	 Using basic operations to analyse data in order to form a conclusion. Using deduction to prove or disprove a statement 	 Using basic operations to analyse data in order to form a conclusion. Using deduction to prove or disprove a statement.
Creative Media	Creative Media	Creative Media	Creative Media	Creative Media	Creative Media
- Using ICT to complete online quizzes to assess knowledge and understanding homeostasis.	 Using ICT to watch stimulations on DNA synthesis Using ICT to research the locations of different types of rock/ rock formations locally and globally. 	- Using SENECA to complete optional online homework/ extension tasks in class.	- Use ICT to research key facts about the environment and use Power point to present research on the impact humans on the environment.	 Using ICT to visualise magnetic fields around magnets. Using ICT to research key facts about the subject matter 	- Using SENECA to complete optional online homework/ extension tasks in class.