Meadow Park School - Curriculum Map 2025-2026

Key Stage	Year Group	Subject	Teacher	Programme of Study
KS4	Year 11	Science	Trevor Ngawoofah	AQA GCSE 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	Assessment Tasks
• 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
Personal Development	Personal Development	Personal Development	Personal Development	Personal Development	Personal Development

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.