Meadow Park School - Curriculum Map 2025-2026

Key Stage Year Group		Subject	Teacher	Prograr	Programme of Study	
KS4	Year 10	Science	Trevor Ngawoofah	AQA C	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)
Cell B	Biology	Bioenergetics	Organisation	Infection and Response	Required Practicals/Revision:	Required Practicals/Revision:
Core Knowledge:		Core Knowledge:	Core Knowledge:	Core Knowledge:	Required Practicals	Required Practicals
Stem cells Transport in cosmosis & act	nt cells ation calculating Meiosis & mitosis cells: Diffusion, tive transport	 Photosynthesis: equation, reactants, products & limiting factors associated with the chemical reaction Investigating the effect of light intensity on the rate of photosynthesis (RP) Uses of glucose from photosynthesis Respiration: aerobic vs anaerobic Factors which affect our metabolism 	 Principles of organisation: cells, tissues, organs & organ systems The human digestive system: organs involved & the actions of digestive enzymes (RP) The heart and blood vessels: functions & adaptations including the composition of the blood Coronary heart disease Health issues in humans & the effect that lifestyle can have on non-communicable diseases (CHD, cancer) Plant tissues & organs 	 Pathogens: structures, cellular processes and entry to the body Viral, bacterial, protist & fungal infections Human barriers to infection: skin, stomach acid etc The human immune system: role of lymphocytes and phagocytes in the immune response (antitoxins, antibodies & engulfing of pathogens) The processes of immunisation with vaccines Antibiotic treatment vs painkillers Discovery & development of drugs Plant pathogens & infection: TMV Antibiotic testing and calculation of clear zone using mathematical pi 	 Microscopes Culturing Microbes Effects of Osmosis on Plant Tissues Food Tests Effect of pH on amylase Photosynthesis Revision of Paper 1 topics 	 Reaction Times Plant Responses Sampling Organisms Decay Revision of Paper 1 topics
Personal De	evelopment	Personal Development	Personal Development	Personal Development	Personal Development	Personal Development

Career focus:	Career focus:	Career focus:	Career focus:	Career focus:	Career Focus
Biology, Medical Technologist,	Botanist, Agronomist, Food	Healthcare sciences and NHS	Virologist, zoology,	Healthcare Science	Medical Technologist
Industrial Technologist	analysis and nutrition	careers, Nutritionist, Health visitor,	pharmaceutical careers,		
		Gastroenterologist	healthcare Science	PD Focus: Living in the wider	PD Focus: Living in the wider world
				world	Emphasis placed on social skills
PD Focus: Health and Well-being	PD Focus: Health and Well-being	PD Focus: Relationships	PD Focus: Relationships	Emphasis placed on social skills	with the practical investigation
Emphasis placed on social skills with	Emphasis placed on social skills	Listening, speaking, problem	Listening, speaking, problem	with the practical investigation	task. Are students able to work
the practical investigation task. Are	with the practical investigation	solving, creativity, staying positive,	solving, creativity, staying	task. Are students able to work in	in a group, listen to ideas and
students able to work in a group,	task. Are students able to work in	aiming high, leadership, teamwork	positive, aiming high,	a group, listen to ideas and	divide a task up fairly before
listen to ideas and divide a task up	a group, listen to ideas and		leadership, teamwork	divide a task up fairly before	relaying their findings back to
fairly before relaying their findings	divide a task up fairly before			relaying their findings back to	the group
back to their group?	relaying their findings back to			their class	
Reading & Writing	Reading &Writing	Reading &Writing	Reading &Writing	Reading &Writing	Reading &Writing
0 0					
- Recording research on acids and	- Writing in full sentences with	- Reading factual information on	- Using deduction to highlight	- Recording observations clearly	- Reading factual information on
alkalis clearly spelling key words	correct punctuation to form	diseases and balanced diets,	key facts within a text answer	spelling key words correctly.	adaptations, highlighting key facts
correctly.	conclusions and answers to open	highlighting key facts and using	short questions.	- Writing conclusions using full	and using their skills of inference.
- Recording observations from	ended questions.	their skills of inference.	- Using inference to form ideas	sentences and using connectives	- Recording observations clearly
practical tasks clearly.	- Including correctly spelt key	- Recording observations clearly	and opinions about research	to include explanations.	spelling key words correctly.
- Writing in full sentences with	words in descriptions.	spelling key words correctly.	or a concept/ theory.	- Applying knowledge of phonics	- Writing in full sentences with
correct punctuation to answer open	- Applying knowledge of phonics	- Writing conclusions using full	- Writing in full sentences with	to spell out new words when	correct punctuation to answer
ended questions.	to spell out new words when	sentences and using connectives	correct punctuation to answer	reading information / methods for	open ended questions.
chaca questions.	reading information / methods for	to include explanations.	open ended questions.	practical tasks.	
	practical tasks.	To include explanations.		praeried rasks.	
Speaking & Listening	Speaking & Listening	Speaking & Listening	Speaking & Listening	Speaking & Listening	Speaking & Listening
- Listening carefully to methods	- Listening carefully to methods	- Speaking respectfully to their	- Listening attentively during	- Listening carefully to methods	- Listening attentively during
ahead of practical skills.	ahead of practical skills.	peers when working as a team	verbal explanations	ahead of practical skills.	verbal explanations recalling the
- Verbally sharing ideas about	- Verbally sharing ideas about	during the practical investigations.	recalling the information	- Verbally sharing ideas about	information that has been relayed
practical results/ listening	practical results/ listening	- Including key words when	that has been relayed in	practical results/ listening	in video clips.
respectfully to the ideas of others.	respectfully to the ideas of others.	verbally explaining results and	video clips.	respectfully to the ideas of others.	- Verbally sharing ideas about practical results/ listening
	-	ideas.			respectfully to the ideas of others.
					respectivity to the lacas of others.
Numeracy & Mathematical	Numeracy & Mathematical	Numeracy & Mathematical	Numeracy &	Numeracy & Mathematical	Numeracy & Mathematical
Reasoning	Reasoning	Reasoning	Mathematical Reasoning	Reasoning	Reasoning
Calculating cell sizes	- Reading scales accurately	- Reading scales accurately during	- Using basic operations to	- Using basic operations to	- Using basic operations to
- Reading scales accurately during	during practical tasks.	practical tasks.	analyse data in order to	analyse data in order to form a	analyse data in order to form a
practical tasks.	- Interpreting data to form a	- Using basic operations to analyse	form a conclusion.	conclusion.	conclusion.
	conclusion and support key facts.	data in order to form a conclusion.	- Using deduction to prove	- Using deduction to prove or	- Using deduction to prove or
	, , , , , , , , , , , , , , , , , , , ,	- Using deduction to prove or	or disprove a statement	disprove a statement	disprove a statement.
		disprove a statement.	,		,
Croative Madia	Croative Media	Croative Media	Croative Madia	Creative Media	Croative Media
Creative Media	Creative Media	Creative Media	Creative Media	Creative Media	Creative Media