Meadow Park: Sequence of Learning Overview 2023-2024					
Subject- Design Technology					
Autumn A	Autumn B	Spring A	Spring B	Summer A	Summer B
Year 7					
DA 9 - take creative risks when making design decisions	DB 9 - develop and communicate design ideas using annotated sketches	MB 9 - use a broad range of manufacturing techniques including handcraft skills and machinery to manufacture products precisely MB 11 - apply a range of finishing	EA 2 - actively involve others in the testing of their products		
TK 1 - how to classify materials by structure e.g. hard words, soft woods, ferrous and nonferrous, thermoplastic and thermosetting plastics	MB 7 - follow procedures for safety and hygiene and understand the process of risk assessment	MA 1 - produce ordered sequences and schedules for manufacturing products they design, detailing resources required	techniques, including those from art and design, to a broad range of materials including textiles, metals, polymers and woods	EB 1 - products through disassembly to determine how they are constructed and function	TK 15 - how to construct and use simple gear trains to drive mechanical systems from a high revving motor
MB 1 - make use of specialist equipment to mark out materials	DA 1 - develop detailed design specifications to guide their thinking	TK 17 - use learning from mathematics to help design and make products that	TK 20 - understand how more advanced mechanical systems used in their products enable changes in movement and force	DB 6 - combine ideas from a variety of sources	EA 1 - evaluate their products against their original specification and identify ways of improving them
EB 2 - the positive and negative impact that products can have in the wider world	TK 2 - about the physical properties of materials e.g. grain, brittleness, flexibility, elasticity, malleability and thermal	work			
		Year 8	<u>.</u>		
DA 9 - take creative risks when making design decisions	DA 1 - develop detailed design specifications to guide their thinking	MB 9 - use a broad range of manufacturing techniques including handcraft skills and machinery to manufacture products precisely	MB 11 - apply a range of finishing techniques, including those from art	EA 4 - produce short reports, making suggestions for improvements	TK 15 - how to construct and use simple and compound gear trains to drive
TK 1 - how to classify materials by structure e.g. hard words, soft woods, ferrous and nonferrous, thermoplastic and thermosetting plastics	MB 7 - follow procedures for safety and hygiene and understand the process of risk assessment	MB 5 - adapt their methods of manufacture to changing circumstances	and design, to a broad range of materials including textiles, metals, polymers and woods	EB 1 - products through disassembly to determine how they are constructed and function	mechanical systems from a high revving motor
MB 1 - make use of specialist equipment to mark out materials	DA 4 - develop design specifications that include a wider range of requirements such as environmental, aesthetic, cost, maintenance, quality and safety	MA 3 - create production schedules that inform their own and others' roles in the manufacturing of products they design	TK 20 - understand how more advanced mechanical systems used in their products enable changes in movement and force	DB 7 - use a variety of approaches, for example biomimicry and user-centred design, to generate creative ideas and avoid stereotypical responses	EA 5 - test, evaluate and refine their ideas and products against a specification, taking into account the views of intended users and other interested groups
EB 2 - the positive and negative impact that products can have in the wider world	TK 2 - about the physical properties of materials e.g. grain, brittleness, flexibility, elasticity, malleability and thermal	TK 17 - use learning from mathematics to help design and make products that work			
	<u>Year 9</u>				

Explore techniques to improve organisational skills Time management techniques Organisational techniques		Plan tasks and manage own responsibilities Exploring: Hand and power tools Equipment Materials		Making minor repairs in a house Small electrical jobs General DIY Home security Disability support	
MB 1 - make use of specialist equipment to mark out materials	process of risk assessment	TK 17 - use learning from mathematics to help design and make products that work Year 10- Cons	nat movement and force	creative ideas and avoid stereotypical responses	modify them to improve performance
EB 5 - how products can be developed considering the concept of 'cradle to grave'	MB 7 - follow procedures for safety and hygiene and understand the	MA 4 - make simple use of planning tools, for instance Gant charts	TK 20 - understand how more advanced mechanical systems used	DB 7 - use a variety of approaches, for example biomimicry and user- centred design, to generate	EA 3 - select appropriate methods to evaluate their products in use and
decisions TK 8 - how to make adjustments to the settings of equipment and machinery such as drilling machines	DB 9 - develop and communicate design ideas using annotated sketches	manufacturing techniques including handcraft skills and machinery to MB 6 - recognise when it is necessary to develop a new skill or technique	MB 11 - apply a range of finishing techniques, including those from art and design, to a broad range of materials including textiles, metals, polymers and woods	making suggestions for improvements EB 3 - products that they are less familiar with using themselves	TK 15 - how to construct and use simple and compound gear trains to drive mechanical systems from a high revving motor

Review techniques to improve organisational skills

Strengths and weaknesses of techniques Identifying ways to improve

<u>frame</u> Forming basic wood working joints
Suitable finishing techniques and finishes for timber
Reviewing own performance

Managing own responsibilities and communicating

Responding to requests and needs of customers Ensuring work is fit for purpose

effectively

Year 11- Construction

Explore skills needed to meet a career goal Benefits of developing a progression plan Exploring progression opportunities Setting a progression goal	Managing own responsibilities and communicating effectively Decision making skills: selecting tools and materials Choose correct finish for given scenarios Health and safety	Coursework deadline has passed Pupils now have the chance to using skills learned over the two years
Produce a progression plan Short and long term goals Identify skills and behaviours needed Review own skills against a progression goal	Decorating inside walls Preparation of walls Mixing paste Applying wallpaper Using emulsions and gloss Double coating walls	to create a three dimensional timber product of their own design Designing skills 2D/3D sketching Joinery skills Complex woodworking joints

KS3
Designing
Making (MA) - Planning
Making (MB) -Practical
Evaluate
Technical Knowledge

	KS4
A 1	BEING ORGANISED
CON 7	MAKING CARPENTRY JOINTS
CON 10	MAKING MINOR REPAIRS IN A HOUSE
A2	DEVELOPING A PERSONAL PROGRESSION PLAN
CON 11	DECORATING AN INSIDE WALL