

## Curriculum Statement – Design Technology

"Design is not just what it looks like, design is how it works" – Steve Jobs			
The national curriculum aims to ensure that all pupils:	Our Planning Approach		
	Hook/Key Question		
• Develop the creative, technical and practical expertise needed to perform	Create a need to know or a problem to be solved to inspire and fascinate. Share outcome		
• everyday tasks confidently and to participate successfully in an increasingly	and identify the purpose, user and product.		
technological world	Investigate and Evaluate		
• Build and apply a repertoire of knowledge, understanding and skills in	Investigate existing designs, products and designers. Review technical knowledge skills		
order to design and make high-quality prototypes and products for a wide	and check prior learning. Introduce key vocabulary.		
range of users	Focused task		
• Critique, evaluate and test their ideas and products and the work of others	Learn and practise new skills.		
• Understand and apply the principles of nutrition and learn how to cook.	Design, Make and Evaluate		
	Create a design brief, which is authentic and meaningful.		
	Plan and create designs/annotate sketches incorporating skills and knowledge. Identify		
	the main stages in making the product.		
	Make product applying skills and technical knowledge.		
	Evaluate throughout the making process and the final product against the intended		
	purpose and user. Consider what others think of the product when considering how the		
	product might be improved and answer the key question.		
<u>Intent – (Aims)</u>	Implementation- How do we achieve our aims?		
At Manor Junior School our intent is to offer all children an inspiring and	Our DT curriculum allows pupils to build on DT enquiry skills throughout their time in our		
engaging Design and Technology curriculum where they will explore, learn and	school, linking topics through key learning threads identified in our planning approach.		
achieve.	Within each topic, we will inspire the children's interest through setting a problem that		
Children will have the opportunity to work in a range of contexts through our	they have to design a solution for. Children will be making connections between their		
enquiry based approach. Through the teaching of a wide and varied Design	prior knowledge, the products they evaluate and their newly acquired skills. They are		
and Technology curriculum, we aim to equip them with the skills and	expected to apply these in designing their solutions and to evaluate and recognise their		
knowledge base needed to be able to design and make solutions to practical	achievements. Life skills such as the use of tools are built upon throughout their time at		
problems. We aim to encourage the children to become confident and	manner e.g. cooking skills build from simple knife skills used to make sandwiches to the		
inquisitive learners who have the skills and knowledge to deal with tomorrow's	more complex ones required to prepare fresh vegetables.		
rapidly changing world.			
Impact - How will we know we have achieved our aims?	Curriculum Links with other subjects and enrichment opportunities		
The children will have:	Year 3		
• Experience of using different joining, cutting and finishing techniques with	RE – Christmas Cards		
variety of materials.	Maths – 3D nets and Measures		
<ul> <li>Generated realistic ideas and design criteria collaboratively through</li> </ul>	Computer Aided Design		
discussion, focusing on the needs of the user and purpose of the product.	Outdoor – growing vegetables		



• Developed ideas through the analysis of existing products, market research	Science forces
and use annotated sketches and prototypes to model and communicate ideas.	PSHCE – keeping healthy
<ul> <li>Ordered the main stages of making.</li> </ul>	Year 4
• Used appropriate tools to measure, mark out, cut, score, shape and assemble	Electricity science
with some accuracy.	Control tech – computing
• Explained their choice of materials according to functional properties and	Outdoor learning harvest berries and acorns for dyes
aesthetic qualities.	Outdoor- Planting for dyes,
• Used finishing techniques suitable for the product they are creating.	Pizza toppings
<ul> <li>Investigated and evaluated a range of existing solutions including the</li> </ul>	English – letters to takeaways for samples / supermarkets – Pizza hut kitchen?
materials, components and techniques that have been used.	Science – digestion
Tested and evaluated their own products against design criteria and the	Year 5
intended user and purpose.	Maths - area
• Used technical vocabulary relevant to their projects worked as part of a team.	Outdoor – plan vegetables to grow for soup
Planning is monitored by the subject leader and work is sampled for each	Maths – 3d shapes / nets, surface area
project. Year leaders are given feedback.	English – letters to supermarkets for samples
	PSHCE
	Year 6
	Seasonality – harvest petals for later in year
	Computing - programming
	Maths – money – profit /loss
	PSHCE Money sense

## Curriculum Overview: Design and Technology at Manor Junior School

	Autumn	Spring	Summer
Year 3	Mechanical Systems: Levers and Linkages (moving Christmas cards)	Cooking and Nutrition: Healthy and varied diet (bread roll)	Structures: Shell Structures (seed bomb packaging)
Year 4	Electrical Systems: Simple Circuits and switches (torch)	Textiles: 2-D shape to 3-D product (bag)	Cooking and Nutrition: Healthy and varied diet (pizza)
Year 5	Cooking and Nutrition: Culture and seasonality	Structures: Wooden structures (tents)	Textiles: Combining different fabric shapes (pencil
	(soup)		case)
Year 6	Electrical Systems: Mechanical Systems and		Design History: Designing and making innovative
	Control (buggy)		products consumer, innovative, exploded diagram
			(Big Business)
			Cooking and Nutrition: Culture and seasonality
			(microwave meals)