

Hemington Primary School

Design and Technology Long Term Plan

Design and technology is an inspiring, rigorous and practical subject. Using creativity and imagination, pupils design and make products that **solve real and relevant problems** within a variety of contexts, considering their own and others' needs, wants and values. They acquire a broad range of subject knowledge and draw on disciplines such as mathematics, science, engineering, computing and art. Pupils learn how to take **risks, becoming resourceful, innovative, enterprising and capable citizens**. Through the evaluation of past and present design and technology, they develop a **critical understanding of its impact on daily life** and the wider world. High-quality design and technology education makes an essential contribution to the creativity, culture, wealth and well-being of the nation.

Technology in the Early Years Foundation Stage:

In the early years, progression in expressive arts and design is sequentially planned. A combination of child initiated and adult directed activities give pupils the opportunities to learn to:

- Use different media and materials to express their own ideas
- Use what they have learnt about media and materials in original ways, thinking about form, function and purpose
- Make plans and construct with a purpose in mind using a variety of resources
- Develop skills to use simple tools and techniques appropriately, effectively and safely
- Select appropriate resources for a product and adapt their work where necessary
- Cook and prepare food adhering to good health and hygiene routines

[Click here to the progression document for DT for Early Years](#)

Hemington School Design and Technology 2022-23

Year A	Nightingale Infant Class	Brunel Junior Class
Term 1	<p>Cooking and Nutrition</p> <p>Healthy Eating; Healthy Lunch box. Look at the “eatwell plate” and a balanced diet - make healthy foods for a lunchbox. e.g. pitta pockets, pasta, crudites.</p>	<p>Cooking and Nutrition</p> <p>Bread - Investigating, making and evaluating different types of bread.</p>
Term 2	<p>Practical Techniques; Technical Knowledge</p> <p>Fire Engines - Investigate axles and wheels. Design, make and evaluate a fire engine.</p>	
Term 3	<p>Materials and Textiles</p> <p>Puppets - Looking at features of puppets, develop and practise sewing skills and follow a design to make a finger puppet.</p>	<p>Practical Techniques; Technical Knowledge</p> <p>Mini Greenhouses - investigating stable structures and materials. Design and make a mini greenhouse.</p>
Term 4		
Term 5		<p>Materials and Textiles</p> <p>Purses - investigate, design and sew a fabric purse.</p>
Term 6		



Hemington School Design and Technology 2023-24

Year B	Nightingale Infant Class	Brunel Junior Class
Term 1	Cooking and Nutrition Teddy Bears' Picnic - Taste and evaluate healthy foods. Make a fruit kebab.	
Term 2		Practical Techniques; Technical Knowledge Moving Toys Investigate and make automata using cams.
Term 3		
Term 4	Practical Techniques; Technical Knowledge Kites - investigate materials and designs for kites including carp and diamond shapes. Make and evaluate their own kite.	Electronics; Practical Techniques Alarms - Investigate, design and make a simple alarm system using parallel and series circuits.
Term 5		
Term 6		Cooking and Nutrition Seasonal Food - Prepare and cook seasonal, savoury recipes of children's choice eg green frittata, savoury muffins.



Hemington School Design and Technology 2024-25

Year C	Nightingale Infant Class	Brunel Junior Class
Term 1	<p>Cooking and Nutrition</p> <p>Healthy Eating; Healthy Lunch box. Look at the “eatwell plate” and a balanced diet - make healthy foods for a lunchbox. e.g pitta pockets, pasta, crudites.</p>	
Term 2	<p>Practical Techniques; Technical Knowledge</p> <p>Fire Engines - Investigate axles and wheels. Design, make and evaluate a fire engine.</p>	
Term 3	<p>Materials and Textiles</p> <p>Puppets - Looking at features of puppets, develop and practise sewing skills and follow a design to make a finger puppet.</p>	<p>Practical Techniques; Technical Knowledge</p> <p>African Instruments - investigate and analyse African instruments e.g. kalimbas; select suitable tools and materials; create an African inspired percussion instrument; evaluate.</p>
Term 4		<p>Control Technology</p> <p>Programming Pioneers - explain how computers and computer programs are used in a variety of products; develop ideas for a product e.g. opening a door, turning on lights using an embedded system.</p>
Term 5		<p>Cooking and Nutrition</p> <p>Sandwich Snacks - Investigate food groups. Plan, design and make a healthy sandwich for a particular purpose making bread and filling choices.</p>
Term 6		



Hemington School Design and Technology 2021-22

Year D	Nightingale Infant Class	Brunel Junior Class
Term 1	Cooking and Nutrition Teddy Bears' Picnic - Taste and evaluate healthy foods. Make a fruit kebab.	Practical Techniques; Technical Knowledge Moving Monsters - Investigate and make moving monsters using a pneumatic system.
Term 2		
Term 3		Practical Techniques; Technical Knowledge Pop Up Story Books - Investigate and make pop up story books using lever and linkage systems. Experiment with fonts and finishing techniques.
Term 4	Practical Techniques; Technical Knowledge Kites - investigate materials and designs for kites including carp and diamond shapes. Make and evaluate their own kite.	
Term 5		Cooking and Nutrition Seasonal Food - Prepare and cook seasonal, savoury recipes of children's choice e.g. green frittata, savoury muffins.
Term 6		