## the Mease Federation

## Design Technology- 2 year Rolling Programme

Design Technology	Year 1 and 2	Year 3 and 4	Year 5 and 6	
Year B	Cooking and nutrition: Cooking Fruit and Vegetables Learn to distinguish between fruit and vegetables and where they grow. Design a fruit and vegetable smoothie/soup and accompanying packaging.	Electrical systems: torches Identify the difference between electrical and electronic products. Evaluate a range of existing torches and their features, then develop a new functional torch design.	Textiles- sewing- stuffed toys Design a stuffed toy and make decisions on materials, decorations and attachments (appendages), after learning how to sew a blanket stitch.	
	Mechanisms: Wheels and axles Learn about the key parts of a wheeled vehicle, to develop an understanding of how wheels, axles and axle holders work. Design	Mechanical systems: making a slingshot car Using a range of materials, design and make a car with a working slingshot mechanism and house the mechanism using a range of nets. Structures: constructing Castles	Digital World: Navigating the World Design and program a navigation tool to produce a multifunctional device for trekkers using CAD 3D modelling software. Pitch and explain the product to a guest panel.	
	and make a moving vehicle. Structures: constructing a windmill Learning about windmills and making a stable structure.	Identify and learn about the key features of a castle, before designing and making a recycled-material castle (structure)	Structures playgrounds Research existing playground equipment and their different forms, before designing and developing a range of apparatus to meet a list of specified design criteria.	
	DESIGN			
	TECHNO	LOGY		

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Year A	Structures-Baby Bear's chair Explore stability and methods to strengthen structures, to understand Baby Bear's chair weaknesses and develop an improved solution for him to use.	Cooking and nutrition: eating seasonally Learn about various fruits and vegetables, and when, where and why they are grown in different seasons. Discover the relationship between colour and health benefits.	Electrical systems: Doodlers Our Doodlers unit explores series circuits further and introduces motors. Explore how the design cycle can be approached at a different starting point, by investigating an
	Textiles: Puppets Explore methods of joining fabric. Design and make a character-based hand puppet using a preferred joining technique, before decorating.Example theme: Storybook	Digital world: wearable technology An alternative to the Electronic charm unit, including a greater focus on evaluation, use of the virtual micro:bit and new video content.	existing product, which uses a motor, to encourage pupils to problem-solve and work out how the product has been constructed, ready to develop their own. Mechanical systems: pop up books
	character. Mechanisms: making a moving monster Explore levers, linkages and pivots through existing products and experimentation, use this research to construct and assemble a	Learn and apply two new sewing techniques – cross-stitch and appliqué. Utilise these new skills to design and make a cushion or Eygptian collar	Create a functional four-page pop-up storybook design, using lever, sliders, layers and spacers to create paper-based mechanisms.
	moving monster.		Discover the farm to fork process, understand the key welfare issues for rearing cattle. Compare the nutritional value of existing sauces and develop a healthier recipe.

TECHNOLOGY