



Robin Hood's Design and Technology Long Term Plan

Year group	Autumn	Spring	Summer
Foundation 2	Structures-A bird feeder. Fixing and joining DMEA- To design, make and evaluate a winter bird feeder for our school wildlife garden.	Food - Ice Lolly Preparing fruit and vegetables- Cooling and freezing DMEA- To design, make and evaluate a cooling fruit ice-pop for a hot sunny afternoon.	Templates and joining- A mini beast inspired hat. Fixing and joining DMEA- To design, make and evaluate a mini-beast hat for our end of year parade.
Year 1	Food-Fruit Salad Preparing fruit and vegetables (including cooking and nutrition requirements for KS1) DMEA- To design, make and evaluate a fruit salad to provide an athlete with energy to run a long race.	Mechanisms-A story book Sliders and levers DMEA- To design, make and evaluate a moving picture to help tell a story at story time.	Structures-A bug hotel Freestanding structures DMEA- To design, make and evaluate a bug hotel to protect wildlife in the school grounds. UN Goal 10- Reduced inequalities
Year 2	Textiles-Rainforest Fashion Show T.Shirt Templates and joining techniques DMEA- To design, make and evaluate a sustainably made rainforest inspired t-shirt to wear at the Rainforest fashion show. UN Goal 12- Responsible consumption and production- (Re-use fabrics to reduce waste and encourage responsible production) Enterprise- Sell the t-shirts made.	Mechanisms- Eco-Friendly vehicle Wheels and axles DMEA- To design, make and evaluate a moving toy for Foundation Children to play with. Combined with an element of electronics. UN Goal 13- Climate action (Sustainable vehicles)	Food-Potato Salad Preparing fruit and vegetables (including cooking nutrition requirements for KS1) DMEA- To design, make and evaluate a healthy potato salad for Year 2's to enjoy at a picnic. UN Goal 12- Responsible consumption and production- (locally sourced foods, zero waste)
Year 3	Food-Healthy Snack Bar Healthy and varied diet	Mechanical Systems-Poster to advertise Magna	Electrical Systems-Electronic Games

	(including cooking and nutrition requirements for KS2) DMEA- To design, make and evaluate a healthy snack bar for parents to eat at the Year 3 Showcase. UN Goal 2- Improve nutrition	Leavers and linkages DMEA- To design, make and evaluate a moving poster to advertise Magna for families.	Simple circuits and switches (including programming and control) DMEA- To design, make and evaluate a night light to advertise Light Night in Nottingham. (CAD element- Design packaging for the night light). UN Goal 7- Clean and affordable energy. Link to Night Light in Nottingham
Year 4	Textiles-A banner used as advertisement 2-D shape to 3-D product DMEA- To design, make and evaluate a banner to advertise our school theme across school and in the community.	Structures- Sustainable packaging Shell structures (including computer- aided design) DMEA- To design, make and evaluate packaging to protect, preserve and promote a food item. UN Goal 12- Responsible consumption and production- (recyclable packaging, reduced waste)	Food-Tart Making Healthy and varied diet (including cooking and nutrition requirements for KS2) DMEA- To design, make and evaluate a variety of seasonal deserts for families to eat at an open afternoon. UN Goal 2- Zero Hunger- (locally sourced foods, zero waste)
Year 5	Structures- Temporary accommodation Frame structures DMEA- To design, make and evaluate a temporary home to support war torn families or those who have experienced a natural disaster. (CAD element. Use 3D printer) UN Goal 1 -No Poverty- (Homes for all)	Mechanical Systems-A fairground ride/stall. Pulleys or gears DMEA- To design, make and evaluate a fair ground ride or stall for people to enjoy at Goose Fair. (including programming and control)	Food-Great British Bake of Celebrating culture and seasonality (including cooking and nutrition requirements for KS2) DMEA- To design, make and evaluate a variety of seasonal dishes (mains and deserts) for a summer garden party.

Year 6	Textiles-Gifts and decorations Combining different fabric shapes (included computer-aided design) DMEA -To design, make and evaluate a decoration or gift for a family member or friend to use. (planning on Tinker CAD) Enterprise - Selling gifts made.	Electrical Systems-Safety at night tool More complex switches and circuits (including programming, monitoring and control-CAD element). DMEA - To design, make and evaluate an item to help keep young children and adults safe at night.	Food-Celebrating culture with food Celebrating culture and seasonality (including cooking and nutrition requirements for KS2) DMEA - To design, make and evaluate a meal to celebrate your culture and to share at a celebration afternoon.
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