

Greenmount Primary D&T

Year Group	Area of curriculum/Term	End point and purpose	Real life resources needed to evaluate.
Nursery- Creating with materials	<u>Autumn</u> Food- Porridge for Goldilocks, cake for Mog's birthday	Preparing a healthy breakfast using simple ingredients. Making food for special occasions	Breakfast items. A variety of cakes.
	<u>Spring</u> Structure and Join- Andy Goldsworthy	To make a sculpture out of natural materials .	Variety of natural materials. Artwork made from natural materials.
	<u>Summer</u> Exploration- Learning about how everyday things work (floating sinking, melting, heating)	A variety of opportunities in the continuous provision and adult led learning to investigate early engineering and technology concepts.	Water area- toys to explore sinking Construction toys Recycled materials to make vehicles/boats Access to outside in snowy weather for exploration. Cooking opportunities
One	<u>Autumn</u> Mechanisms – Sliders & Leavers	Make a moving picture with lever, slider and wheel- WINTER themed this year to show African partner school.	Moving picture books
	<u>Spring</u> Food – Preparing fruit and vegetables (Smoothies)	Make a fruit smoothie for a healthy class picnic.	Variety of smoothies and fruits to taste.
	<u>Summer</u> Structures – Animal enclosures	Design an outdoor shelter for an animal to sleep in- test outdoors for weather proofing, size, shelter etc. (J. Bosworth)	Chicken enclosure, bug hotel, bird house in school grounds
Two	<u>Autumn</u> Textiles – templates and joining techniques. Au2	Christmas tree decorations for school tree.	Variety of Christmas tree decorations
	<u>Spring</u> Mechanisms - Wheels and Axels Spr2	Fire engines with moving wheels and axel for the new and improved London.	Toy vehicles with visible wheels and axels.

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	<u>Summer</u> Food - Preparing fruit and vegetables (Dips & Dippers) Su2	Dips for an end of year celebration.	Variety of dips to taste.
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Three	<u>Autumn</u> Structures – Shell structures	To create a structure for a time capsule. Frida Khalo	Boxes made from different materials.
	<u>Spring</u> Food - sandwiches	To create a healthy packed lunch to show Year 2 what they should be having in their packed lunch. Ainsley Harriet	Variety of sandwiches using different breads and fillings.
	<u>Summer</u> Textiles – 2D shapes to 3d product	To make a beach ball for our year group trip to Filey. Wilson Sports Goods	Balls of different shapes, sizes and materials.
Four	<u>Autumn</u> Mechanical Systems –Leavers and linkages	Dioramas of climate and animal habitats with moving parts (food chains) Ole Kirk Christiansen	Fiction and non-fiction books containing levers and linkages.
	<u>Spring</u> Electrical Systems - Simple circuits and switches (including programming and control)	Security light with sensor. Thomas Edison	Crumble kits, including bulbs, switches and sensors. Existing electrical appliances that use sensors and lights.
	<u>Summer</u> Food -Pizza	Anthony Gemignani	Pizza cook books, existing pizzas with variety of toppings, pizza boxes

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Five	<u>Autumn</u> Electrical Systems – Micro- bit	To make a night light for a child who is afraid of the dark. <ul style="list-style-type: none"> • Martine Bedie. 	Night lights in a variety of designs.
	<u>Spring</u> Structures – frame structures	To design and make a bridge. <ul style="list-style-type: none"> • Isambard Brunel 	Images of bridges
	<u>Summer</u> Food - Using garden produce to make soup/pasta sauce	To produce a recipe to cook a pasta dish or soup using seasonal vegetables. Create packaging which details ingredients and their nutritional value.	Recipe books Grow your own fruit and veg packs
	<u>Autumn</u> Mechanical Systems – Pulleys or Gears	Moving Christmas decorations to display within the school entrance.	Christmas decorations that move.
	<u>Spring</u> Textiles - Combining different fabric shapes (including computer-aided design)	To make a bag to hold school supplies	Range of fabric bags
	<u>Summer</u> Food – Healthy fast food	To design and make a healthy alternative to take-away food	Take-away menus

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EYFS- During the Early Years Foundation Stage, the essential building blocks of children's design and technology capability are established. There are many opportunities for carrying out DT related activities across all the areas of learning. By the end of Reception year most children should be able to; construct with a purpose in mind, using a variety of resources. Use simple tools and techniques competently and appropriately, Build and construct with a wide range of objects, selecting appropriate resources and adapting their work when necessary. Select the tools and techniques they need to shape, assemble, and join materials. Children have access to areas of continuous provision, that supports DT skills such as; malleable area, creative area, writing/mark making area, construction, outdoor space.

KS2 - Begin each topic with an initial lesson focusing on/researching a 'Famous Designer that has shaped the world'. ie Zaha Hadid, Jamie Oliver, Deliciously Ella, Christopher Wren, Alexander G.Bell, Coco Chanel, Ian Burnett, Steve Jobs, Percy Shaw, Monica Galetti, Isambard Kingdom Brunel, Ole Kirk Christiansen.

Ideas can include watching videos about them, sorting attributes (what makes a successful designer eg perseverance, intelligence, being correct first time etc) into agree/ strongly/ agree/ disagree etc, sorting true/false statements, researching online, drawing portraits, writing fact files etc.

Across all year groups children should be designing and making **Something for Somebody for Some Purpose**. Children will design, make and evaluate; showing a range of technical knowledge.