

D & T Long Term Plan

	Autumn	Spring	Summer
Nursery- Creating with materials	Food- Porridge for Goldilocks, cake for Mog's birthday	Structure and join- Andy Goldsworthy	Exploration- Learning about how every day things work (floating sinking, melting, heating)
Reception Creating with materials	Construction- Building Beeston Using a range of tools- Diva lamps	Structure and join- 3D sculptures Giuseppe Arcimboldo	Food- Making foods from other cultures
Y1	Mechanisms – Sliders & Leavers	Food - Preparing fruit and vegetables (including cooking and nutrition requirements for KS1)	Structures – Freestanding structures
Y2	Textiles – templates and joining techniques. Christmas decorations	(Summer 1) Mechanisms - Wheels and Axels to make a fire engine	Food - Preparing fruit and vegetables to make dips(including cooking and nutrition requirements for KS1)
Y3	(Spring 1) Textiles – Sewing- Make a Greenmount mascot (Joanna Ball)	(Summer 1) Food- Healthy and varied diet (including cooking and nutrition requirements for KS2) Sandwiches (Ainsley Harriet)	Structures- 2D shapes to 3D product (Smiggle)
Y4	Mechanical Systems – Leavers and linkages (<u><i>Ole Kirk Christiansen.-lego</i></u>)	Electrical Systems - Simple circuits and switches (including programming and control) (<u><i>Edison</i></u>)	Food - Healthy and varied diet (including cooking and nutrition requirements for KS2) (<u><i>Joe Wicks</i></u>)
Y5	Electrical Systems - Crumbles (Alexander Bell)	Structures- frame structures (Isambard Brunel)	Food- Using garden produce to make soup/pasta sauce (Deliciously Ella)
Y6	Mechanical Systems- Pulleys or Gears (Zaha Hadid)	(Summer 1) Food - Celebrating culture and seasonality (including cooking and nutrition requirements for KS2) Scones (Nadiya Hussain)	Textiles - Combining different fabric shapes (including computer-aided design) (Steve Jobs)

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.