

DT CURRICULUM OVERVIEW

Term	Autumn		Spring		Summer	
Nursery	Use a variety of construction materials.	Make Christmas cards and decorations for friends and family using a range of media.	Use books and photos to stimulate lanterns, Chinese writing, puppet making,	Make Mother's Day crafts Easter crafts. Create closed shapes with continuous lines and begin to use these shapes to represent objects.	To use puppets and props to act out different traditional tales.	To construct with bricks and blocks to make an enclosure
Reception	Use resources available for props; build models using construction equipment.	Use different textures and materials to make houses for the three little pigs and bridges for the Three Billy Goats	Rousseau's Tiger / animal prints / Designing homes for hibernating animals. Children will be encouraged to select the tools and techniques they need to assemble materials that they need	Make different textures; make patterns using different colours Children will explore ways to protect the growing of plants by designing scarecrows.	Design and make rockets. Design and make objects they may need in space, thinking about form and function.	Lighthouse designs
Year 1 'Basic' Cognitive Domain	Levers and Linkages Sliding Christmas cards <i>(Unit 1.5 and 1.6)</i> Diversity link – Christmas around the world		Structures Chair for a soft toy <i>(Unit 1.2 and 1.3)</i> Aspiration link - The Japanese designer, Noboru Nakamura - IKEA		Food Portable snacks <i>(Unit 1.8)</i> Link to healthy eating	
Year 2 'Advancing' and 'Deep' Cognitive	Structures Making a bridge <i>(Unit 1.4)</i> Aspiration link - Emily Warren, first female field engineer and budding supervisor of the Brooklyn Bridge.		Wheels and axles Moon buggy – wind powered car <i>(Unit 1.7)</i>		Food Couscous <i>(Unit 1.9)</i> Diversity and culture link – origins of couscous Link to healthy eating	
Year 3 'Basic' Cognitive Domain	Levers and linkages Making a safety barrier <i>(Unit 2.4)</i>		Structures Building a truss bridge <i>(Unit 2.6)</i> Culture and diversity link – truss bridges around the world (Asia)		Food Vegetable soup <i>(Unit 2.8)</i> Link to healthy eating	
Year 4 'Advancing' and 'Deep' Cognitive Domains	Electricity Paper circuits to make a celebration card <i>(Unit 2.3)</i> Text - Cool Circuits and Wicked Wires: Special, Sparky Experiments (Next Steps in STEM): 1		Structures CAD chair <i>(Unit 2.7)</i> Aspiration – studying the life journey of the founder of CAD - Douglas Ross.		Food Dips <i>(Unit 2.9)</i> Link to healthy eating	
Year 5 'Basic' Cognitive Domain	Electricity Motorised car using electric motors, axles, pulleys and gears <i>(Unit 3.3)</i>		Arch structures Building a roof with an arch structure <i>(Unit 3.4)</i> Culture and diversity link – arch structures around the world - https://jtcroofing.co.uk/news/famous-roofs-around-world/		Food Food throughout the year (culture) – 1 day <i>(Unit 3.8)</i> Link to healthy eating Bread <i>(Unit 3.9)</i>	
Year 6 'Advancing' and 'Deep' Cognitive Domains	Structures Tetrahedral kites <i>(Unit 3.5)</i> Aspiration link - studying the life of Moona Whyte – kite surfer.		Cams Automatic toy boards <i>(Unit 3.7)</i> Text - Spy Toys by Mark Powers <i>(addressing gender stereotypes)</i>		Food Food throughout the year (culture) – 1 day <i>(Unit 3.8)</i> Link to healthy eating Bolognese <i>(Unit 3.10)</i>	

KEY:

Structures – frame, solid, shell, arch, could be wood, straws, lolly sticks etc...

Mechanisms – slider, lever, wheel and axle, linked lever, pulleys, gears and cams

Food – food preparation, sources of food, seasonal foods, safety and hygiene, health

Electrical systems – paper circuits, electronic motors