



Design Technology Curriculum Overview

Projects highlighted in pink will be ambassador endorsed projects

Nursery	<u>Creating with Materials</u>	<u>Creating with Materials</u> Children will explore different materials freely to develop their ideas about how to use them and what to make.	<u>Creating with Materials</u> Children will create closed shapes with continuous lines and begin to use these shapes to represent objects.	<u>Creating with Materials</u> Children will develop their own ideas and then decide which materials to use to express them.	<u>Creating with Materials</u> Children will make imaginative and complex small worlds with blocks and construction kits such as a city with different buildings and a park. Children will join 2 materials together. Children will cut and stick for a purpose.	<u>Creating with Materials</u> Children will join different materials and explore different textures.
Reception	<u>Creating with Materials</u> Children will know how to make the flange join and treasury tag join.	<u>Creating with Materials</u> Children will know which glue or tape to use for their chosen purpose.	<u>Creating with Materials</u> Children will know how to make an I-brace join	<u>Creating with Materials</u> Children will know how to make a slot join.	<u>Creating with Materials</u> Children will know how to make a tab join.	<u>Creating with Materials</u> Children will know how to make a split pin join. Children will know how to sew to join.

Aspect of DT	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Mechanisms	Sliders and levers <u>Easter Cards</u>	Skills Project Wheels and axles -Discuss how wheels and axles may be either fixed axles or free axles. -Show different ways of making axle holders. -mark out, hold, cut and join materials and components correctly. -Assemble some examples of wheel, axle, and axle holder combinations.	Levers and linkages <u>Greetings card</u>		Skills Project Pulleys or Gears -investigate combinations of two different sized pulleys and gears to learn about direction and speed of rotation.	CAMs project <u>Moving toy</u>
	Year 1/2 Mechanisms Sliders and levers	Year 1/2 Mechanisms Wheels and axles	Year 3/4 Mechanical systems Levers and linkages		Year 5/6 Mechanical systems Pulleys and gears	Year 5/6 Mechanical systems CAMs
Structures	Freestanding structures <u>Bridge for a toy car</u>	Freestanding structure <u>Rainforest Tree house</u>	Skills Project Biscuit Box -Use kit parts with flat faces to construct nets. - scoring, cutting out and assembling using pre-drawn and drawn nets.	Shell structures <u>Does this game stop you from being bored? – board game</u>	Frame structures <u>Shelters</u>	
	Year 1/2 Structures Freestanding structures	Year 1/2 Structures Freestanding structures	Year 3/4 Structures Shell structures	Nuffield primary solutions project Year 3/4 Structures Shell structures	Year 5/6 Structures Frame structures	

Aspect of DT	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Textiles	Running stitch	Cross stitch	Overstitch	Blanket stitch	Back stitch	Embroidery French knot, stem stitch, chain stitch, satin stitch
	Skills Project Templates and joining techniques Hand puppets -begin to learn running stitch using early Binca -use running stitch to join material together	Templates and joining techniques Place mat with name -Use cross stitch to embroider name onto Binca -use running stitch to attach to felt/material	2D and 3D products Bag -Use over sew to join seams of bag together -Decorate the outside of the bag with running stitch/cross stitch (flower theme?) -Include fastening e.g button and loop	Skills Project 2D and 3D products Stuffed animal -Use blanket stitch to join material together -Use applique for decoration	Combining different fabrics Pencil case -Use back stitch to join material together -Leave seam allowance -Use a fastening - Velcro, button or press stud	Skills Project Computer aided design (CAD) in textiles Poppy
	Year 1/2 Textiles Templates joining techniques	Year 1/2 textiles templates and joining techniques	Year 3/4 Textiles 2D shape to a 3D product	Year 3/4 Textiles 2D shape to 3D product	Year 5/6 Textiles Combining different fabric shapes	Year 5/6 Textiles Using computer-aided design (CAD) in textiles
Electronics				Electrical systems Night Light Year 3/4 Electrical systems Simple circuits and switches		Electrical systems Board Game Year 5/6 Electrical systems More complex switches and circuits
Cooking and Nutrition	Preparing vegetables Bruschetta Summer	Preparing vegetables Winter veg soup Autumn	Healthy and varied diets - Range of salads and coleslaw Summer	Healthy and varied diet Focaccia Summer	Celebrate culture and seasonality Spring green pizza Spring	Celebrate culture and seasonality Vegetable pies (eg. spinach and feta pie with pastry toppings) Summer
	Year 1/2 Food Preparing fruit and vegetables	Year 1/2 Food Preparing fruit and vegetables	Year 3/4 Food Healthy and varied diet	Year 3/4 Food Healthy and varied diet	Year 5/6 Food Celebrating culture and seasonality	Year 5/6 Food Celebrating culture and seasonality