



Whole School Design and Technology Curriculum Coverage

We use Oak National to support our planning and teaching of Design Technology in Key Stage 1. These projects form part of a half term of learning.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reception	Use junk modelling to make models using own ideas and techniques for joining, learn to use tools safely (hammer, nails, large pieces of wood), sewing Christmas decorations (overstitch), opportunities to prepare fruit and vegetables using simple tools (snack shack), cooking opportunities combining ingredients as they arise through child initiated learning and topics.					
	To know how to work safely and hygienically Learn how to cut soft fruit using a table knife. (Snack shack) To use different construction materials Introduce workbench safety (tap-a-shape, golf tees in malleable materials eg balsa wood, pumpkin)	To use non-statutory measures (spoons, cups) To make mince pies for 'Music and Mince Pies'. To know the names of tools Introduce hammer and nails, demonstrate how to use safely. Demonstrate use of sandpaper to smooth and shape blocks of balsa wood and soft woods.	To use non-statutory measures (spoons, cups) to make a simple recipe for cupcakes. To know how the mixture will change when heated in oven. To use some cooking techniques To use tools to join wood To know the names of tools Introduce screwdriver and bradawl,	To use non-statutory measures (spoons, cups) to make animal biscuits. To mix, roll out dough with rolling pin and use cutters to shape before cooking. To use tools to join wood using different nails and screws To know the names of tools Introduce saw (Japanese pull saw) initially with balsa wood but can include softwood such as pine as children's skills	To use some cooking techniques (spreading, cutting-sandwiches with blunt knife) Introduce hand drill and G-clamp. Demonstrate how to use safely.	To make mini pizzas linked to topic of 'Around the World' (Italy) To use a kitchen knife under 1:1 supervision to chop ingredients such as pepper. Work collaboratively on a project of the children's choice using the skills and knowledge gained over their Reception year.

			demonstrate how to use tools and screws safely using blocks of balsa wood.	progress. Demonstrate how to use safely.		
Year 1		Food and Nutrition Preparing fruit using a variety of kitchen tools including sharp knives and peelers combining to taste. Teach claw grip	Sewing Victorian samples as bookmarks (textiles- running stitch, x stitch)	Structures (free standing structures) Make designs stiffer and stronger. Design a bridge for the Billy Goats Gruff.		Mechanisms (sliders and levers) Mechanisms with a lever, pop up and pivot. Design and make a card with a mechanism. (Levers, pulleys and gears demo) https://youtu.be/Fy7Rfxbzjig
Year 2		Food and Nutrition Preparing vegetables using a variety of kitchen tools including sharp knives, grater, colander, blender and peelers combining to taste. Revise claw grip and introduce bridge method.		Mechanisms (wheels and axels) Make mock ups to show moving axel and fixed wheel and fixed axel with moving free wheel. Produce a moving toy.		Puppets (textiles- templates & joining techniques) Explore different joining techniques and make a pattern. Design and make a glove puppet.