## Design Technology Progression of Knowledge and Skills

## Year 1

Design	Make	Evaluate
KS1 Design and Technology National Curriculum	KS1 Design and Technology National Curriculum	KS1 Design and Technology National Curriculum
Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing.	Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of making.	Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing
They should work in a range of relevant contexts [for example, the nome and school, gardens and playgrounds, the local community, ndustry and the wider environment]. Children design purposeful, functional, appealing products for hemselves and other users based on design criteria.	Children select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]. They select from and use a wide range of materials and components, including construction materials, textiles and	and making. Children explore and evaluate a range of existing products. They evaluate their ideas and products against design criteria. Children can:
They generate, develop, model and communicate their ideas hrough talking, drawing, templates, mock-ups and, where appropriate, information and communication technology.	ingredients, according to their characteristics. Children can: Planning	<ul> <li>explore and evaluate existing products mainly through discussions, comparisons and simple written evaluations;</li> <li>explain positives and things to improve for existing products;</li> </ul>
Children can:	<ul> <li>with support, follow a simple plan or recipe;</li> </ul>	<ul> <li>explore what materials products are made from;</li> </ul>
<ul> <li>use their knowledge of existing products and their own experience to help generate their ideas;</li> </ul>	<ul> <li>begin to select from a range of hand tools and equipment, such as scissors, graters, zesters, safe knives, juicer;</li> </ul>	<ul> <li>talk about their design ideas and what they are making;</li> </ul>
<ul> <li>design products that have a purpose and are aimed at an intended user;</li> <li>explain how their products will look and work through talking</li> </ul>	<ul> <li>Practical skills and techniques</li> <li>learn to use hand tools and kitchen equipment safely and appropriately and learn to follow hygiene procedures;</li> </ul>	<ul> <li>evaluate their products and ideas against their simple design criteria;</li> </ul>
<ul><li>and simple annotated drawings;</li><li>design models using simple computing software;</li></ul>	<ul> <li>use a range of materials and components, including textiles and food ingredients;</li> </ul>	
<ul> <li>plan and test ideas using templates and mock-ups;</li> <li>understand and follow simple design criteria;</li> </ul>	<ul> <li>assemble, join and combine materials, components or ingredients;</li> </ul>	
work in a range of relevant contexts, for example imaginary, story-based, home, school and the wider environment.	<ul> <li>use a basic running stitch;</li> <li>cut, peel and grate ingredients, including measuring and weighing ingredients using measuring cups;</li> <li>begin to use simple finishing techniques to improve the appearance of their product, such as adding simple decorations.</li> </ul>	

Technical Knowledge	Cooking and Nutrition	
KS1 Design and Technology National Curriculum	KS1 Design and Technology National Curriculum	
Children build structures, exploring how they can be made stronger, stiffer and more stable.	Children use the basic principles of a healthy and varied diet to prepare dishes.	
They explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products. Children can:	They understand where food comes from. Children can: understand that all food comes from plants or animals;	
<ul> <li>build simple structures, exploring how they can be made stronger, stiffer and more stable;</li> </ul>	<ul> <li>understand that food has to be farmed, grown elsewhere (e.g. home) or caught;</li> </ul>	
<ul> <li>talk about and start to understand the simple working characteristics of materials and components;</li> </ul>	<ul> <li>understand that everyone should eat at least five portions of fruit and vegetables every day and start to explain why;</li> </ul>	
<ul> <li>explore and create products using mechanisms, such as levers, sliders and wheels.</li> </ul>		

## Year 2

Des	ign	Make	Evaluate
KS1	Design and Technology National Curriculum	KS1 Design and Technology National Curriculum	KS1 Design and Technology National Curriculum
sho	ough a variety of creative and practical activities, pupils uld be taught the knowledge, understanding and skills ded to engage in an iterative process of designing.	Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of making.	Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing
hom indu Chill ther The thrc app	y should work in a range of relevant contexts [for example, the he and school, gardens and playgrounds, the local community, istry and the wider environment]. dren design purposeful, functional, appealing products for nselves and other users based on design criteria. y generate, develop, model and communicate their ideas hugh talking, drawing, templates, mock-ups and, where ropriate, information and communication technology. dren can: use their knowledge of existing products and their own experience to help generate their ideas;	<ul> <li>Children select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing].</li> <li>They select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.</li> <li>Children can:</li> <li>Planning</li> <li>follow a simple plan or recipe;</li> <li>select from a range of hand tools and equipment, such as scissors, graters, zesters, safe knives, juicer;</li> </ul>	<ul> <li>and making.</li> <li>Children explore and evaluate a range of existing products. They evaluate their ideas and products against design criteria. Children can: <ul> <li>explore and evaluate existing products mainly through discussions, comparisons and simple written evaluations;</li> <li>explain positives and things to improve for existing products;</li> <li>explore what materials products are made from;</li> <li>talk about their design ideas and what they are making;</li> <li>as they work, start to identify strengths and possible changes they might make to refine their existing design;</li> </ul> </li> </ul>
•	design products that have a purpose and are aimed at an intended user; explain how their products will look and work through talking and simple annotated drawings;	<ul> <li>select from a range of materials, textiles and components according to their characteristics;</li> <li>Practical skills and techniques</li> <li>learn to use hand tools and kitchen equipment safely and</li> </ul>	<ul> <li>evaluate their products and ideas against their simple design criteria;</li> <li>start to understand that the iterative process sometimes</li> </ul>
•	design models using simple computing software; plan and test ideas using templates and mock-ups; understand and follow simple design criteria;	<ul> <li>appropriately and learn to follow hygiene procedures;</li> <li>use a range of materials and components, including textiles and food ingredients;</li> </ul>	involves repeating different stages of the process.
	work in a range of relevant contexts, for example imaginary,	<ul> <li>with help, measure and mark out;</li> <li>cut, shape and score materials with some accuracy;</li> <li>assemble, join and combine materials, components or ingredients;</li> </ul>	
		<ul> <li>demonstrate how to cut, shape and join fabric to make a simple product;</li> <li>manipulate fabrics in simple ways to create the desired effect;</li> <li>confidently use a basic running stitch;</li> <li>cut, peel and grate ingredients, including measuring and weighing ingredients using measuring equipment;</li> <li>begin to use simple finishing techniques to improve the</li> </ul>	

Technical Knowledge	Cooking and Nutrition
<ul> <li>KS1 Design and Technology National Curriculum</li> <li>Children build structures, exploring how they can be made stronger, stiffer and more stable.</li> <li>They explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.</li> <li>Children can: <ul> <li>build simple structures, exploring how they can be made stronger, stiffer and more stable;</li> <li>talk about and start to understand the simple working characteristics of materials and components;</li> <li>explore and create products using mechanisms, such as levers, sliders and wheels.</li> </ul> </li> </ul>	<ul> <li>KS1 Design and Technology National Curriculum</li> <li>Children use the basic principles of a healthy and varied diet to prepare dishes.</li> <li>They understand where food comes from.</li> <li>Children can: <ul> <li>explain where in the world different foods originate from;</li> <li>understand that all food comes from plants or animals;</li> <li>understand that food has to be farmed, grown elsewhere (e.g. home) or caught;</li> <li>name and sort foods into the five groups in the Eatwell Guide;</li> <li>understand that everyone should eat at least five portions of fruit and vegetables every day and start to explain why;</li> <li>use what they know about the Eatwell Guide to design and prepare dishes.</li> </ul> </li> </ul>