



Together Everyone Achieves More

Curriculum statement for the teaching and learning of Design and Technology 2021/ 2022

Subject Coordinator: Miss Smith

<b>INTENT</b>	<p>At Willington Primary we want Design and technology to be an inspiring, rigorous and practical subject. Using creativity and imagination, pupils design and make products that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values. They acquire a broad range of subject knowledge and draw on disciplines such as mathematics, science, engineering, computing and art. Pupils learn how to take risks, becoming resourceful, innovative, enterprising and capable citizens. Through the evaluation of past and present design and technology, they develop a critical understanding of its impact on daily life and the wider world.</p>			
<b>Underpinned By</b>	<b>Design</b>	<b>Make</b>	<b>Evaluate</b>	<b>Technical Knowledge</b>
	<p>Willington pupils will use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups. They will generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional diagrams, prototypes, pattern pieces and computer-aided design.</p>	<p>Willington pupils will select from and use a wider range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing) accurately. They will select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities</p>	<p>Willington pupils will investigate and analyse a range of existing products, evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</p>	<p>Willington pupils will apply their understanding of how to strengthen, stiffen and reinforce more complex structures, including textiles. They understand and use mechanical systems in their products, understand and use electrical systems in their products and apply their understanding of computing to program, monitor and control their products where appropriate.</p>

<b>Implementation</b>	<p><b>Resources:</b> Children develop DT skills through use of range of tools, materials, textiles, construction, ingredients and computer systems; developing and deepening skills which are revisited in each key stage.</p>	<p><b>Cooking:</b> Children have access to our fully cookery room throughout their time at Willington Primary for a range of learning.</p> <p>From KS2 children have discrete cookery sessions in our cookery room through which they develop a range of cookery skills and build confidence.</p>	<p><b>Thoughtful Questioning</b> that encourages deeper thinking and the consideration of other viewpoints including meeting the needs of the consumer of a product.</p>
	<p><b>Kapow lessons</b> will engage pupils and provide all children the opportunity to develop their DT skills.</p>	<p><b>Subject Specific Vocabulary</b> Staff will model explicitly the subject-specific vocabulary, knowledge and skills relevant to the learning to allow them to integrate new knowledge into wider skill concepts.</p>	<p><b>Discussion</b> allowing children to share and consolidate their knowledge</p>
	<p><b>Provision in EYFS</b> Children are given a secure grounding in the Prime Areas of learning, ensuring they have a good foundation on which to build through the specific areas, including understanding the World. Areas of provision are enhanced to ensure vocabulary understanding and extension, and develop understanding of materials , especially via construction and joining such as in 'junk' modelling. Children also cook on a regular basis in EYFS and are encouraged to try new things and learn about healthy eating.</p>		