


## Design and Technology Curriculum

<b>Intent</b>	Our Design and technology scheme of work aims to inspire children to be innovative and creative thinkers who have an appreciation for the product design cycle through ideation, creation, and evaluation. We want children to develop the confidence to take risks, through drafting design concepts, modelling, and testing and to be reflective learners who evaluate their work and the work of others. Through our scheme of work, we aim to build an awareness of the impact of design and technology on our lives and encourage pupils to become resourceful, enterprising citizens who will have the skills to contribute to future design advancements.
<b>Implementation</b>	Our whole curriculum is shaped by our school vision which aims to create a positive, safe and nurturing environment, where everyone belongs and is encouraged to shine and become the best they can be. We teach the National Curriculum, supported by a clear skills and knowledge progression. This ensures that skills and knowledge are built on year by year and sequenced appropriately to maximise learning for all children. Vocabulary and themes are revisited to help children to embed their learning. Newtown School uses Kapow Primary's Design and technology scheme. Children respond to design briefs and scenarios that require consideration of the needs of others, developing their skills in the six key areas. Each of our key areas follows the design process (design, make and evaluate) and has a particular theme and focus from the technical knowledge or cooking and nutrition section of the curriculum. The Kapow Primary scheme is a spiral curriculum, with key areas revisited again and again with increasing complexity, allowing pupils to revisit and build on their previous learning. Lessons incorporate a range of teaching strategies from independent tasks, paired and group work including practical hands-on, computer-based and inventive tasks. This variety means that lessons are engaging. Lessons are adapted so that all children can access the learning and are challenged. Design and Technology lessons may be taught in a block each half term.
<b>Impact</b>	<p>Children are involved in the evaluation and decision making about the quality of their outcomes and the improvements they need to make. The children will be able to talk confidently about their own learning journey, have higher metacognitive skills and a growing understanding of how to improve. Formative assessment is used to inform future planning and each lesson has guidance for assessing children against learning objectives.</p> <p>By the time children leave Newtown School they will be able to:</p> <ul style="list-style-type: none"> <li>• Understand the functional and aesthetic properties of a range of materials and resources.</li> <li>• Understand how to use and combine tools to carry out different processes for shaping, decorating, and manufacturing products.</li> <li>• Use skills, knowledge and understanding to fulfil design briefs.</li> <li>• Understand and apply the principles of healthy eating, diets, and recipes, including key processes, food groups and cooking equipment.</li> </ul>

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- Have an appreciation for key individuals, inventions, and events in history and of today that impact our world.
  - Recognise where our decisions can impact the wider world in terms of community, social and environmental issues.