

# At Priory, we flourish in Design and Technology by working

## TOGETHER!

Trust	
Optimism	
Gratitude	
Enthusiasm	
Thoughtfulness	
Honesty	
Enjoyment	
Respect	

Our Christian Vision and Values underpin everything that we do: they help to guide us in our learning and our life, both now and beyond!



## Priory CE Academy Design and Technology – Design, Delivery and Outcome Statement

<b>Design (Intent)</b>	<p>Our aim is that children will develop knowledge that will last a lifetime, along with strong skills to prepare them for the world, enabling them to lead a successful life and make a positive contribution to their community.</p> <p>We follow KAPOW as our chosen Design and Technology curriculum in Key Stages 1 and 2. KAPOW “aims to inspire pupils to be innovative and creative thinkers who have an appreciation for the product design cycle through ideation, creation, and evaluation. We want pupils 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”.</p> <p>We carefully consider our children and community to ensure our curriculum is bespoke to their needs. Any purchased schemes are also carefully considered and adjusted to match need. As a Rights Respecting School, where possible in lessons, links are made to the rights of the child. Opportunities to promote British Values, SMSC and our equality objectives are incorporated across the Curriculum. Teachers have strong subject knowledge and learning is clearly sequenced over terms, years and throughout the school to ensure knowledge is learnt and embedded.</p> <p>Our curriculum is brought to life through the ‘Learning Challenge’ enquiry based approach. As according to cognitive scientists nothing has been learnt until it is in your long term memory we focus on ensuring learning sticks. We understand through research, including with our children, what aids long term memory and include these strategies in all our teaching sequences. A focus on key knowledge for every topic and a clear assessment, away from the point of learning, demonstrates the effective implementation and impact of our curriculum.</p>		
	<b>Underpinned by:</b>		
	<p><b>High expectations:</b>  <i>‘Be the best that you can be’</i> is the Priory school motto; like within all aspects of school life and all other subjects, we expect children to live this in Design and Technology. We have high expectations for all children in every Design and Technology lesson and use our secrets of success in order to support them and recognise their efforts.</p>	<p><b>Teacher Modelling:</b>            The skills needed to succeed in Design and Technology will be taught by teachers, who will ensure to provide examples of good practice with high expectations.</p>	<p><b>Key Vocabulary:</b>            Understanding of subject specific in Design and Technology vocabulary is vital to success in the subject. Each lesson, specific key vocabulary is taught and referred to throughout. The teacher will demonstrate the importance of the use of the correct vocabulary and will encourage children to use this throughout the lesson and through the design, make and evaluate process.</p>

<b>Delivery (Implementation)</b>	<p><b>Kapow Scheme of Learning:</b> The Design and technology National curriculum outlines the three main stages of the design process: design, make and evaluate. Each stage of the design process is underpinned by technical knowledge which encompasses the contextual, historical, and technical understanding required for each strand. Cooking and nutrition* has a separate section, with a focus on specific principles, skills and techniques in food, including where food comes from, diet and seasonality. The National curriculum organises the Design and technology attainment targets under four subheadings: Design, Make, Evaluate, and Technical knowledge. Kapow has taken these subheadings to be the Kapow Primary strands: design, make, evaluate and technical knowledge. Cooking and nutrition is given a particular focus in the National curriculum and Kapow has made this one of our six key areas that pupils revisit throughout their time in primary school: Cooking and nutrition, Mechanisms/ Mechanical systems, Structures, Textiles, Electrical systems (KS2 only) and Digital world (KS2 only).</p>	<p><b>Assessment:</b> The impact of Kapow Primary’s scheme can be constantly monitored through both formative and summative assessment opportunities. Each lesson includes guidance to support teachers in assessing pupils against the learning objectives. Furthermore, each unit has a unit quiz which can be used at the end of a unit.</p>	<p><b>Health and Safety:</b> The Kapow risk assessment is highly comprehensive and are available for teachers to use for their Design and Technology lessons.</p>
	<p><b>Design:</b> Each stage of the design process is underpinned by technical knowledge which encompasses the contextual, historical and technical understanding, required for each strand. The design process allows children to develop skills and knowledge in research, design criteria, idea generation (e.g. annotated sketches), idea development (e.g. templates, pattern pieces.), models and prototypes (both virtual and physical), cross-sectional and exploded diagrams and innovative, fit-for-purpose and functional product solutions to design problems.</p>	<p><b>Make:</b> Through the Kapow scheme of work, the make part of a lesson enabled children to: select and use appropriate tools and equipment, understand and select materials and components (including ingredients) based on their aesthetic and functional properties, carry out practical tasks with increasing accuracy and precision, understand the importance of, and follow the health and safety rules.</p>	<p><b>Evaluate:</b> As part of the evaluation process children will: explore existing products, evaluate against a list of design criteria, evaluate, investigate and analyse existing products, evaluate their own and others’ ideas, understand how key events and individuals have helped to shape the world of D&amp;T and consider feedback to make improvements.</p>
	<p><b>Secrets of Success:</b> At Priory, we use ‘Secrets of Success’ to support children with their approached to learning: trying new things, improving skills, not giving up, etc. are all recognised as important qualities of effective learners</p>	<p><b>Continued Professional Development (CPD):</b> At Priory, we are committed to staff development through CPD. This is done by attending training opportunities and regional networking events.</p>	

<b>Outcome (Impact)</b>	<p><b>Outcomes:</b> The expected impact of following the Kapow Primary Design and technology scheme of work s that children will:</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>• Build and apply a repertoire of skills, knowledge and understanding to produce high quality, innovative outcomes, including models, prototypes, CAD, and products to fulfil the needs of users, clients, and scenarios.</li> <li>• Understand and apply the principles of healthy eating, diets, and recipes, including key processes, food groups and cooking equipment.</li> <li>• Have an appreciation for key individuals, inventions, and events in history and of today that impact our world.</li> <li>• Recognise where our decisions can impact the wider world in terms of community, social and environmental issues.</li> <li>• Self-evaluate and reflect on learning at different stages and identify areas to improve.</li> <li>• Meet the end of key stage expectations outlined in the National curriculum for Design and technology.</li> </ul>	<p><b>Monitoring:</b> Through pupil voice, lesson observations, parent workshops, evidence of D+T on display we can ensure the implementations of Kapow.</p>	<p><b>Progression and Coverage:</b> The Kapow Design and Technology scheme has units divided into the following key areas: cooking and nutrition, mechanisms/ mechanical systems, electrical systems, digital world, structures and textiles.</p>
-------------------------	---	--	---



As the rainbow appears in the clouds,  
we are the brightness all around.

**TOGETHER** we respect uniqueness and rights;  
growing our knowledge  
with the Lord as our light.

Be the best  
that you can be,

**TOGETHER!**