



Here at St Paul's CE Primary School, we are proud to provide excellent care and outstanding education for children from three to eleven years old in our unique, picturesque setting. Our Christian vision is at the heart of all we do, and we endeavour to provide a personalised curriculum to each and every child.

Our small class sizes allow us to give each child a high level of support and guidance. We take care to ensure that we know every child's starting points and we adapt our teaching to meet their needs, meaning every pupil is experiencing challenge and success.

Our DT curriculum is mapped out through rolling programmes due to the class sizes and we have worked hard to tailor the curriculum to it is bespoke to our children.

Our DT Curriculum

Intent

In DT, we aim to provide all children with the opportunity to explore their own creative, technical and practical expertise (and that of others) to then make products that solve real and relevant problems.

Design and technology at St Paul's 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.

We want to develop all pupils' interest and enjoyment of DT, helping children understand how DT education makes an essential contribution to creativity, culture, wealth and well-being of the nation.

We want our pupils to experience a progressive curriculum that enables them to design, make and evaluate products using their technical knowledge and understanding of cooking and nutrition. They will also be able to understand the principles of nutrition and healthy and balanced diets and learn practical skills needed when preparing food.

Teachers aim to link work to other subjects such as Reading, Mathematics, Science, Engineering, Computing and Art. Children learn how to take risks through high-quality design and technology experiences. Children will leave St Paul's as problem solvers and future innovators.

Implementation

Our DT curriculum is progressive in the processes of investigating and evaluating activities, focused tasks, designing, making and evaluating. Children are given opportunity to practise and implement both their practical skills and technical knowledge to make a variety of products for a variety of purposes and audiences. Additionally, pupil's build upon their knowledge and skills in cooking and nutrition. Memorable learning experiences encourage life skills that may be applied in and out of the school setting.

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 and appeal to those with a variety of learning styles.

Each unit of work will follow a structure

Presenting the problem or need for a product and discussing the success criteria.

Research – this includes exploring current products and what makes them successful / appealing

Product Design – Use of sketching, labelling or writing instructions as well as the consideration of equipment / materials

Prototype construction – children will begin to think about key mechanisms needed to make the product work / appealing as well as considering scale and proportion.

Final Piece – children use research, design and prototype to produce a final product.

Evaluation – children will evaluate their product against the success criteria and consider improvements for future projects / products.

We ensure progression through selected vocabulary and small steps that are progressive through each key stage.

Impact

Children will have clear enjoyment and confidence in Design and Technology that they will then apply their skills/knowledge to other areas of the curriculum. Through carefully planned and implemented learning activities the pupils develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world. The children will gain a firm foundation of knowledge and skills to see them equipped to take on further learning in High School. Pupil's skills and knowledge are assessed in an ongoing manner by the class teacher, throughout lessons.

Pupils will:

- Understand the functional and aesthetic properties of a range of materials and resources.
- Understand how to use and combine tools to carry out different processes for shaping, decorating, and manufacturing products.
- Build and apply a repertoire of skills, knowledge and understanding to produce high-quality, innovative outcomes, including models, prototypes, and products to fulfil the needs of users and scenarios.
- Understand and apply the principles of healthy eating, diets, and recipes, including key processes, food groups and cooking equipment.
- Have an appreciation for key individuals, inventions, and events in history and their impact on our world.
- Recognise where our decisions can impact the wider world in terms of community, social and environmental issues.
- Self-evaluate and reflect on learning at different stages and identify areas to improve.
- Meet the end of key stage expectations outlined in the National curriculum for Design and Technology.