



EXPLORING DESIGN AND TECHNOLOGY Intent • Implementation • Impact

Pembridge is a school where we encourage everyone to be **inspired** through faith in God and to live by Christian values so that our **teaching and learning** is of the highest quality, our whole community **flourishes** and we reflect all that is worthy of **praise**.

INTENT	How does design and technology inspire our children?	Our children are surrounded by things which are designed and made. Perhaps too often, products are bought and used without really understanding the design and technology which has gone on behind the product to make us purchase and use them. We want our children to question why things are made the way they are, to explore how structures are put together and to have opportunities to design and create individual pieces. We encourage our children to discover who a product is designed for and how it has been well made and attractively finished. Our children use appropriate vocabulary to generate designs for products with a purpose related to their topics in other subjects. They select and correctly use the right equipment for the task with increasing accuracy. We want our children to use a range of materials relating to food, textiles and construction, using skills they can take with them on their learning journey.	
IMPLEMENTATION	How is our teaching and learning in design and technology organised?	A two-year rolling programme ensures that design and technology skills, knowledge and understanding are built on and developed as children progress through the school. In each year, children have three questions which lead them to design, make and evaluate a product related to cooking, textiles and construction. These areas may include use of mechanisms, electrical components and a variety of stiff, flexible and mouldable materials. We use objectives from Focus Education® which help children to develop their ability to plan and communicate ideas, work with tools and materials to make quality products and evaluate these processes and products. Our learning behaviours are interwoven with these so that we enable children to engage in the subject with growing independence and curiosity so that they can make connections across different subjects or with local links; for example, in science, children will have the opportunity to research rainforest animals which can then be designed and made into a cuddly toy.	
IMPACT	How does design and technology help our children to flourish and be worthy of praise?	We want our children to be proud of the products they create, building on the focused skills we teach. Whether through food, textiles or construction, our designers and makers can explain the choices they make when drawing their design and what changes they have to do to get the best result. They will know how healthy nutrition makes a difference to their lives and how to keep themselves hygienic and safe in a kitchen environment. In textiles, our children should be able to sew on a button and make some running repairs! When constructing, they will try their best to measure accurately, join carefully and present their product so that others recognise their creative strengths.	