

## Park Gate Design and Technology Curriculum



At Park Gate Primary School we are designers, inventors, researchers and creators. Our children are excited to be involved in real and purposeful projects which enable them to develop both subject specific skills and much broader life skills such as food safety, cooking and sewing.

Our integrated curriculum enables the children to develop high quality prototypes and products with direct links to their work in English, maths, science and computing. Children are inspired by investigating the work of famous inventors and designers and through the process of careful research, evaluation and redesigning the children become more resilient and resourceful. We value this process as much as the final product, showcasing our achievements at our end of project outcomes.

During their first year at school, children are given lots of opportunities to collaborate in building play, experimenting with boxes, wood, bricks, pipes, junk and card. Free flow activities allow them to develop fine motor skills, using writing implements, scissors and simple tools.

Welcome to Fairy-tale Land finds Year 1 exploring the world of puppets, testing, evaluating and developing their own designs to support a storytelling session with Year R. Year 2 draw inspiration from the beautiful book *The Sea of Dreams* to create their own sea creatures, designing their own template and carefully stitching their final piece.

It is vital that our children consider the need for reusable resources and Year 3 will be busy cutting and stitching fabric to create functional but beautifully festive Christmas gift bags.

Entering Year 4 requires visitors to be on high alert as the children's secret mission to create spy gadgets focuses on structures, incorporating a computer controlled circuit.

In Year 5 we investigate recipes and ingredients used during WWII, with the children creating their own turnovers.

Finally in Year 6, the children combine all their knowledge from previous mechanisms work to create a fairground ride, integrating control technology to include movement.

An exciting range of food challenges across the years help the children learn the skills needed to prepare and cook healthy meals. Linking closely with our PDL curriculum, we consider the importance of food and nutrition to our health and wellbeing. Children learn early chopping and spreading skills, creating sandwiches and snacks in Key Stage One. In Key Stage Two the children further develop these skills, researching their ingredients, testing flavour combinations and making sure they stick within their budget.

If you would like to find out more please read our long term overviews.

**The Subject Leaders for Design and Technology are Mrs Feast and Miss Turner.**