Iqra Primary School

We Learn, We Lead, We Inspire

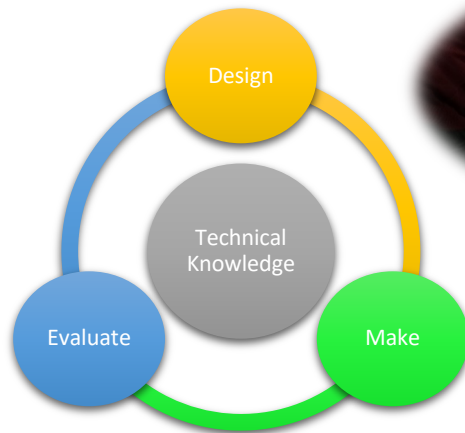# Design and Technology Curriculum

Intent

At Iqra our Design and Technology curriculum offers a coherently planned sequence of lessons to help teachers ensure they have progressively covered the knowledge, understanding and skills required in the National Curriculum. We aim to inspire children through a broad range of practical experiences to create innovative designs which solve real and relevant problems within a variety of different contexts. At Iqra Primary School, the Design and Technology curriculum combines skills, knowledge, concepts and values to enable children to tackle real problems. It can improve analysis, problem solving, practical capability and evaluation skills. We aim to, wherever possible, link work to other disciplines such as mathematics, science, engineering, computing and art. The children are encouraged to become innovators and risk-takers. This iterative process encourages children to identify real and relevant problems, critically evaluate existing products and then take risks and innovate when designing and creating solutions to the problems. Opportunities are provided for children to evaluate key events and individuals who have helped shape the world, showing the real impact of design and technology on the wider environment and helping to inspire children to become the next generation of innovators.

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At Iqra, Design and Technology skills and understanding are built into lessons, following a sequential process. Our curriculum allows for the revision of ideas to become part of practice and ultimately helps to build a depth in our children's understanding. Through revisiting and consolidating skills, our lesson plans and resources help our children build on prior knowledge alongside introducing new skills, knowledge and challenge. We plan a series of lessons for each key stage, which offer structure and narrative. The introduction of key vocabulary is built into each lesson and then included in display materials and additional resources to ensure that children are allowed opportunities to repeat and revise this knowledge.

Through these lessons, we intend to inspire pupils to develop a love of Design and Technology to prepare them for an ever-evolving technological world they live in.

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Impact

Children at Iqra will ultimately know more, remember more and understand more about Design Technology, demonstrating this knowledge when using tools or skills in other areas of the curriculum and in opportunities out of school. We aim to encourage children to become creative problem-solvers, both as individuals and as part of a team. Through the study of design and technology, children will combine practical skills with an understanding of aesthetic, social and environmental issues, as well as of functions and industrial practices. This allows them to reflect on and evaluate present and past design and technology, its uses and its impact. Our design and technology curriculum is of high quality, well thought out and is planned to demonstrate progression. We ensure that our Design and Technology curriculum is loved by teachers and pupils across school, therefore encouraging them to want to continue building on this wealth of skills and understanding, now and in the future. As designers' children will develop skills and attributes they can use beyond school and into adulthood.