

Curriculum coverage

	Autumn Term	Spring Term	Summer Term
Nursery	Exploring nutrition, textiles, mechanisms and creating structures across the academic year.		
Reception	How do you build a home for the 3 Little Pigs?	How do you design a healthy lunchbox?	How do you design and make a basket?
	How can you create a book with pop-up mechanisms?	How do I make and prepare a healthy snack?	How do you make a kite that flies?
Year 1	How do you make a glove puppet?	How can I make a structure stable?	How do you make a rocket blast off?
Year 2	What is the most effective way to create a self-standing structure?	What makes the most nutritional healthy wrap?	How can I use air to make a creature that moves?
Year 3	Can you design the school bag of the 2000s?	How can I use electrical systems in a product?	How do levers, pulleys and gears help Cornish miners' machines?
Year 4	What makes the most nutritional pizza?	How can we upcycle clothes?	How can a cam mechanism make something move up and down?
Year 5	Is it possible to design an electrical structure to generate	How do I make a prototype Anderson Shelter?	How can you exploit the sun's energy?
Year 6			

Ignite Wonder

Our children experience many opportunities to design and create products through our many Ignite wonder days and weeks, including designing crowns, making fancy dress outfits, creating miniature gardens, talking to experts in their different fields and judging/ evaluating peers creations through Beacon's Great British Bake Off.



Beacon

Shine brightly as a design technologist



Bebrave

Bebrilliant

Believe

Bebrave ADVENTURE

Exposes our children to a rich and diverse world that is full of colour, music, creativity and celebration. Providing our children with the opportunity to see a world beyond their own, that will inspire and influence their future choices.



Intent

To provide an exciting, inclusive and enriching Design Technology curriculum that inspires the designers of the future. Developing children's Design Technology subject specific vocabulary, whilst exploring a variety of design techniques through the 4 steps of product design. 'Design, Make, Evaluate and Technical knowledge'. To deepen their understanding of the many wonders of Design Technology, encouraging children's inquisitiveness and confidence to challenge and design products.

Implementation

Design Technology will be implemented through; delivery of design and technology projects with a clear structure. Themes that are revisited include; Food Technology, Mechanisms/Mechanics, Structures and Textiles. Delivery showing clear following of the design process where each project follow: research, design, make and evaluate. Design Technology focused displays in every classroom alongside celebrating the outstanding three dimensional creations on display throughout the school.

Vision

At Beacon, we want our children to believe that they can be the engineers and designers of the future. Our core values are embedded through ensuring our children; Believe that they can achieve in the world of technology, design and engineering Be brave – children are confident to take risks, persevere and problem solve Be brilliant - children have opportunity to design and make products that solve real and relevant problems, within a variety of contexts. Through high quality teaching and experiences, we aspire for all children to be ambitious, innovative and creative in their design and construction, plus have a deep understanding of the importance of Design and Technology in our ever changing world.

Impact

We encourage children to view themselves as designers, developing their own passion for design technology. Our Design and Technology curriculum will be demonstrated through children developing the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world. Building and applying a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products, whilst demonstrating their imagination, curiosity and excitement when exploring design technology. Confidently participating in testing ideas and products and evaluating their idea processes and end product with a reflective, innovative approach. Understanding and applying the principles of nutrition and learning how to cook. We provide rich opportunities to truly inspire children to pursue a career in design technology if they choose.

Bebrilliant CULTURAL DIVERSITY

Enables our children to develop a growth mindset, by exposure to challenging experiences that allow our children to question and explore opportunities that will enable them to become confident and resilient in all areas of their lives.

Believe POSSIBILITIES

Allows our children to explore the world around them, knowing that the experiences they gain will enhance their lives and open doors to new adventures.

