



# Biscovey Academy Design and Technology (DT)

## Design and Technology Intent Statement

Biscovey Academy is a school where everyone **DREAMS** big! DREAMS is capitalised within our tag line as it stands for one of our core values which underpin all the work we do here at Biscovey Academy.

**D= Diversity** – Design and Technology has always played a crucial role in human expression and the unique, yet linked cultures, across our globe. By celebrating key designers, buildings and architecturally and historically important monuments, children at Biscovey understand how Design and Technology continuously bring people together whilst celebrating their differences.

**R= Rules** - We have high expectations for behaviour, routines and expectations for children. We ensure they adhere to our school rules of Ready, Respectful and Safe.

**E= Empathy** – By interacting with famous works of design and exploring their development and purpose, Biscovey Academy designers develop nurturing and empathic hearts and minds, in tune with their emotions and literate in the ability to express themselves, and understand others, through their work.

**A= Aspirations** - Through celebrating our world, and the achievements of its designers and inventors, pupils leave Biscovey with the skills, language and knowledge required to participate, engage and change our future world.

**M= Motivation** – Through a curriculum designed with inclusivity, wonder and engagement at its core, all children feel inspired to experiment with a range of ideas and materials, allowing their creativity to flow.

**S= Success** - We ensure all pupils experience success within Design and Technology lessons by encouraging curiosity and experimentation. Our aim is to support all learners to feel as though they are designers by helping them to develop a growth mindset.

Design and Technology at Biscovey Academy is designed to provide children with the cultural capital that they will need to succeed in their lives beyond primary education. Through pupil voice, and understanding the needs of our community, pupils at Biscovey explore a range of past and present, local and international designers, and are exposed to a variety of skills as they progress through our school. Our curriculum is designed to provoke discussions, promote curiosity and advance pupils' vocabulary and technical skill. By studying significant designs and designers, children should become aware of the world around them as well as the opportunities that are available to them. We want our pupils to develop a sense of agency and responsibility, as well as taking pride in their local community. The study of cuisine, buildings, monuments and textiles from a range of historical periods provides children with a better understanding of the world around them and embeds links across our curriculum. We want pupils to be able to speak in a confident and knowledgeable manner about a range of designers, recalling technical skills with expanding vocabulary. As children progress through school, skills are built upon each year to develop deep and precise understanding of the Design and Technology curriculum.

All pupils at Biscovey Academy have the right to an engaging, immersive and comprehensive curriculum, that not only delivers the content of the National Curriculum, but also prepares our children to deal with tomorrow's rapidly changing world. Our curriculum equips children with the necessary knowledge and skills to use their creativity and nurture their problem-solving skills to design and make products that solve real and relevant problems within a variety of contexts, whilst also considering their own and others' needs, wants and values. Design and Technology provides the children with the opportunities to develop and extend skills and allows them to express their individual interests, thoughts and ideas. At Biscovey Academy we believe that a high-quality Design and Technology education should engage, inspire and challenge pupils, equipping them with the knowledge and skills to experiment, invent and create their own works of design. As pupils progress through school, skills should be built upon each year to develop a deep and precise understanding of the Design and Technology curriculum. Children should be able to think critically and develop a more rigorous understanding of design processes.

Children at Biscovey are given an ambitious curriculum which has carefully identified core knowledge for each unit, whilst design skills are progressive to their academic age. They are provided with a range of coherently sequenced tasks, questions and challenges intended to provoke, intrigue, and challenge every child. High quality Design and Technology lessons inspire children to want to know more and also encourages them to become independent, creative problem solvers and thinkers, both as individuals and as members of a team. Children are encouraged to use their creativity and imagination, to design and make products that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values. At

Biscovey Academy, we want our children to be active learners with the confidence to 'have a go,' and the resilience to persist with a project when faced with a challenge. Through the study of Design and Technology, they will combine practical skills with an understanding of aesthetic, social and environmental issues, as well as functions and industry, whilst also allowing them to reflect on and evaluate past and present technology, its uses and impacts.

We recognise that the acquisition of language is vital to children's learning and understanding. Design and Technology introduces a lot of words that are unfamiliar or not in everyday use, so it's important to explicitly teach vocabulary. SEND are pre taught vocabulary where necessary, and vocabulary is revisited and built upon each lesson.

Driven by our Dare to Dream Curriculum, we are committed to providing access to a first-class education for all pupils, which is highly ambitious for those with Special Educational Needs and Disabilities (SEND) and other vulnerable groups. All pupils are entitled to have access to a broad, balanced, and relevant curriculum, which is scaffolded and differentiated to meet individual needs. Pupils are supported to keep up, not catch up. Biscovey Academy staff recognise and are committed to fulfilling their responsibility to ensure that every pupil has an equal opportunity to attain good outcomes in their learning, progress and personal development.

We recognise that children work better when they feel psychologically and physically safe. Therefore, through our curriculum offer we prioritise relationships and relentless routines.

## DT Implementation Statement

The teaching of Design and Technology across the school follows the National Curriculum and is supported with resources from the Kapow scheme of learning. Through our immersive, cross curricular approach, children are provided with a variety of creative and practical activities, through which we teach the knowledge, understanding and skills needed to engage in an iterative process of designing, making and evaluating products. The children work in a range of relevant contexts, linked to their current topic area, where they are required to design products with a purpose and an intended user of the products in mind. Design and Technology will engage the children in a broad range of designing and making activities which involve a variety of methods of communication; speaking, designing, drawing, assembling, making, writing and using computer technology. Teachers are encouraged to teach Design and technology lessons as a block, so that children's learning is focused throughout each unit of work.

Our Design and Technology units are structured to allow our children to articulate and explain the different phases of the Design process. Subject-specific vocabulary and a diverse range of people and products are consistently show-cased to pupils to support their ability to engage in the subject.

Food technology is implemented across the school with children developing an understanding of where food comes from, the importance of a varied and healthy diet and how to prepare this. This helps to ensure coverage as well as progression in skills and knowledge as our children progress through KS2. The knowledge and skills required for children to meet the expectations of the National Curriculum are clearly tracked to ensure that new learning builds on prior knowledge and consolidates understanding, showing sound progression across the depth and breadth of the subject.

We believe that high-quality design and technology education makes an essential contribution to the creativity, culture, wealth and well-being of the nation.

## DT Impact Statement

The impact of this curriculum design allows for an immersive, progressive and high-quality Design and Technology education that provides all children with the knowledge and skills to become confident and inquisitive problem solvers. We want to empower our children so that they have high ambitions for their future careers. Through opportunities for outdoor learning, trips and visits, children understand how the different elements of Design and Technology have changed and impacted on our lives and their impact on the future. We discuss the possibilities of possible and related careers as well as significant people over time to ensure that all pupils are aware of the career paths that are available to them.

Pupil voice from both pupils and staff is used to further develop our DT curriculum, CPD and current practice. By developing pupils' ability to articulate what it means to evaluate, and then evaluate their own work against set success criteria, we empower pupils to self-assess and evaluate their learning and develop their own next steps. This is always guided by the standards for assessment set in the National Curriculum.

At Biscovey, our Dare to Dream curriculum offers a broad and balanced approach with a strong emphasis on personal development. We are committed to ensuring that our pupils achieve outcomes at the end of Key Stage 2 that surpass the national average. Above all, we take pride in the perceptive, articulate, and engaged individuals they become, ready to embrace the next steps in their education and beyond.