



Biscovey Academy Computing

Computing Intent Statement

We are preparing children for jobs that have not yet been invented, in order to solve problems we don't even know are problems yet.

– Richard Riley (former US Secretary of Education)

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 – Digital technologies form the backbone of our modern and globalised world. Our computing curriculum expose children to the fundamental skills and safety points needed to develop careers across the globe, or to bring those skills and ideas to our local area. This is achieved through a relentless focus on the diverse range of digital industries, and people employed within these industries.

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 – Our pupils will develop their ability to empathise with different users, considering their needs, preference, and limitations through the interaction of various activities and projects. By cultivating empathy, we aim to empower our pupils to create inclusive and user-centred digital solutions that address real-world challenges.

A= Aspirations – Through a range of challenging and creative activities, we aim to ignite their passion for technology and encourage them to explore their interests and talents. By providing opportunities for self-expression and personal growth, we strive to empower our pupils to pursue their aspirations and excel in the ever-evolving world of computing.

M= Motivation – By fostering a sense of motivation, we strive to empower our pupils to explore, experiment, and persist in their learning journey, ultimately becoming self-driven and lifelong learners in the field of computing. Through hands-on projects and real-world application, we aim to spark curiosity and enthusiasm for computing.

S= Success – Every pupil at Biscovey understands the importance of an understanding and ability to use digital technologies. Our pupils are ready to interact in the modern, digital age. They have the skills needed to be employed in a plethora of careers and the confidence to use technology to their advantage.

All pupils at Biscovey Academy have the right to an engaging, immersive, and comprehensive curriculum that not only meets the content of the National Curriculum but provides the children with a solid understanding of an ever-changing technological world. We believe 'Computational thinking' and 'creativity' is the backbone that children must be taught if they are to effectively participate in this digital world in a productive yet safe way.

Through the study of Computing, children will develop their declarative and procedural knowledge and skills that will enable them to take a proactive role in everyday life. In fact, a lack of these skills would put children at a major disadvantage and therefore reduce their options as they grow. Computing has deep links with mathematics, science, and design and technology. However, we aim to incorporate Computing within all subjects as we should not subject both children and adults to a constrained curriculum that inhibits creativity and understanding. It is our intention to provide a robust curriculum which aims to nourish children and, through 'Computational thinking', provide essential knowledge that the children can continuously build upon outside of Biscovey Academy.

We recognise that the acquisition of language is vital to children's learning and understanding. Computing 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.

Computing Implementation Statement

Fundamental to the teaching of computing at Biscovey is the progression of skills and knowledge as children progress through the school. This is built upon what children already know when they move up from the infants' school. Teachers at Biscovey are given a Progression of Skills document which allows them to see a breakdown of the skills for each year group, ensuring a focus on declarative and procedural knowledge. Teaching is delivered through topics. Lessons within each topic and under each umbrella question are coherently sequenced through questions pupils will address during each session. Our curriculum focusses on ensuring children's understanding of the digital world is constantly grown and challenged.

We will use learning walks and pupil voice as an opportunity to ensure consistency in the quality of teaching and identify strengths within the school. This will provide opportunities for professional development and peer to peer support where teachers can observe each other and share good practice.

In Biscovey Academy we aim to ensure children are active, resilient users of technology and that teachers use 'unplugged' activities to solidify the varied concepts of the curriculum before moving onto the more technology driven aspects. We ensure that appropriate use of technology will enhance learning at all stages of school life and that it is not used as a sole means of driving the computing curriculum. To aid in our delivery, Biscovey Academy have access to a set of Chromebooks within each year group and a bank of iPads to be used across the school when required.

Computing knowledge & skills underpin modern life and the 21st Century economy. Children need to build a vital confidence, knowledge and understanding of the way technologies work - and how internet-connected systems can be employed - in order to adapt flexibly to rapid change over coming years.

Our framework is mapped into three broad strands: Computer Science, Information Technology and Digital Literacy. The National Curriculum's Computing content is used as a starting point for devising our curriculum - yet lengthy objectives are broken down into manageable, sequenced chunks for children across the school, with further objectives added that widen the scope and reach of the subject to reflect its ever-growing breadth and importance.

Progression through the framework is based on key items of knowledge and skills being re-visited and expanded upon, allowing children to build solid foundations in their long-term understanding of computing. Our bespoke framework provides children with a broad, balanced set of learning experiences. With strategic hardware and software choices made by Biscovey Academy, a multitude of high-quality, yet easy-to-access, learning experiences are made available for staff and students.

Computing Impact Statement

Our curriculum equips children with the skills to become digitally literate and able to join the rest of the world on its digital platform. Not only will they be able to interact with society in a more technological fashion, but they will also be fully equipped to interact safely – a key aspect that cannot be taken lightly. The biggest impact we want on our children is that they understand the consequences of using the internet and that they are also aware of how to keep themselves safe online.

Each class uses a digital folder of work to allow learners to record their work and to allow leaders to monitor progress and assessment within the subject.