

## **Biscovey Academy Mathematics**

### **Mathematics Intent Statement**

"Without mathematics, there's nothing you can do. Everything around you is mathematics. Everything around you is numbers."

**Shakuntala Devi**

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: we believe every child should have opportunity to achieve their fullest potential no matter individual ability or identity. This road could be long and arduous and we realise the destination will not be reached overnight. However, we are committed to arriving at the same place by working collaboratively to create learning spaces which reflect the diversity of today's world.

**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: mistakes are our friends. This message is important when studying Mathematics as without making mistakes, learning is stalled. We are empathetic towards errors; we embrace mistakes and explore misconceptions so every opportunity becomes a learning opportunity.

**A** = Aspirations: through celebrating our world, and the achievements of its inhabitants, pupils leave Biscovey with the skills, language and knowledge required to be members of our global community.

**M** = Motivation: motivation matters! We understand that all young children possess a curious inquisitiveness. By harnessing these interests, with well pitched lesson content, it allows children to broaden their inherent curiosity, and ultimately, persist in each mathematical challenge they attempt.

**S** = Success: we are passionate about providing all our children with a confidence, and love, for manipulating number. These skills are life-long; they are taken with them throughout their schooling and into adulthood.

Mathematics is a key subject vital for developing and broadening our understanding of the world around us. As a school, we teach Mathematics daily, using Mastery approaches which allow children to deepen their mathematical understanding through using fluency, reasoning and problem solving activities.

At Biscovey Academy, we believe every child is entitled to learn key concepts and we recognise the importance of multiple representation so children are immersed in mathematical equipment, language, pictures and symbols. This approach helps children's fluency and deepens their understanding through exploring mathematical concepts and ideas. We challenge children to make deep links when reasoning and use factual knowledge to help problem solve. It is just as important for children to be able to explain, and justify, their thought processes using specific, and accurate, mathematical vocabulary than finding the answer itself.

We recognise that the acquisition of language is vital to children's learning and understanding. Mathematics introduces a vast array of words that are unfamiliar or not in everyday use, so it's important to explicitly teach vocabulary. SEND children 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. 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.

### **Mathematical Implementation Statement**

Fundamental to the teaching of Mathematics 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 follow the White Rose blocked unit approach which includes carefully sequenced, small stepped progressions that build upon previous learning. At Biscovey Academy, we have a clear, consistent and coherent lesson structure which develops children's Mathematical proficiency, thinking and understanding.

### **Mathematical Impact Statement**

At Biscovey Academy, our goal is for children to love Mathematics and to be confident Mathematicians that can apply their knowledge in differing contexts. We realise that every child can experience success using Maths, across the curriculum, provided the correct support, resources, mindsets and attitudes are embraced. These attitudes help our children to become lifelong learners.

Progress is tracked using ongoing daily teacher assessment within lessons. Pre and post block assessments are used to ascertain gaps in understanding which allow for tailored provision so we can meet the needs of our pupils. End of term arithmetic and

reasoning assessments are also given to enable us to gauge children's understanding of the topics taught and identify the next steps of development.

Biscovey's tracking systems and any areas of development will have been identified by the teacher. Well planned sequenced learning help to support the children refine their Mathematical skills so they are in a position to apply their understanding and solve a range of problems across all subjects. We aim for children to reason with confidence and to articulate their thoughts and opinions to peers, justifying the decisions they have made. We want our children to be excited by Mathematics and have a deep understanding of concepts they are using within the wider school community.