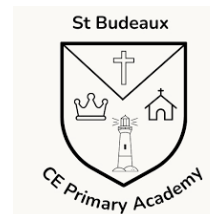
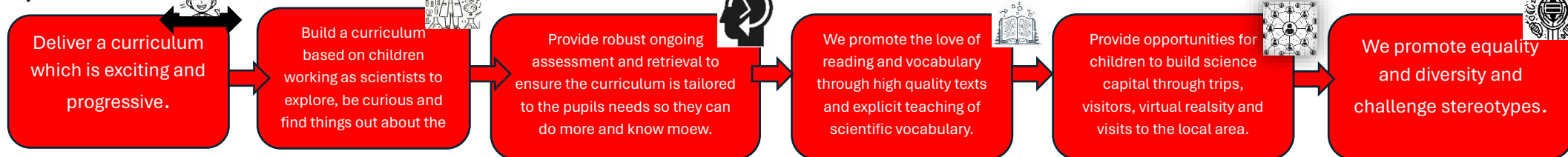


Science

'Science at St Budeaux nurtures independent scientific thinkers'
At **St Budeaux Primary Academy**, the focus is on **developing curious minds, fostering scientific inquiry**, and equipping children with both subject knowledge and essential skills. Through a creative curriculum that connects science to everyday life, students **explore, question, and discover** the wonders of the universe.



Intent



Implementation

Sequence

The curriculum is based on a rolling programme to fit the mixed age classes in the school. Each unit builds on children's prior knowledge, then is sequenced into smaller chunks to aid retention of learning. Each unit has key performance indicators to ensure children are learning the relevant information. Working Scientifically is the focus of all lessons to ensure children are building on these skills to apply their disciplinary

Working Scientifically and Scientific Enquiry

The working Scientifically skills are explicitly taught in each lesson, and we use symbols to help children recognise the skill they are developing. Children are exposed to all seven working scientifically skills and develop their ability to predict, question, observe, measure, interpret, communicate, plan tests and evaluate. These skills are progressive and tracked. Each lesson will also have a scientific enquiry focus where children are thinking about how they are applying their skills and answering scientific concepts. These enquiry types include comparative/fair testing, research, observing over time, pattern seeking and identifying and classification.



Retrieval practice and metacognition

In order for children to 'know more and do more' and retain the key performance indicators of each topic. Children have a range of retrieval activities and opportunities to revisit and recap previous learning. Children learn in different ways to support retention of information, this can be through practical activities, literacy and outdoor learning.

Developing vocabulary

Within each unit, subject specific vocabulary is explicitly taught, and children then apply this to their learning. This allows children to talk confidently about scientific processes. We also plan opportunities for children to study a range of scientists over time.

Early Years

In the early years children are constantly exploring the world around them. They are immersed in a rich environment which invites plenty of opportunity for them to follow their interests by making observations and drawing on their own experiences. They are deliberately exposed to knowledge which prepares them for the National Curriculum in Year 1 and beyond. They begin to understand the need to respect and care for their environment and all living things. They learn about seasons, the weather, plants, animals and different materials through their continuous provision.

Developing curiosity and hands on learning.

Planning of science includes a range of ways to make children curious about the topic they are studying. This may be through concepts such as odd one out, big questions, tinker tasks, videos or short practical tasks. We also develop children's science capital through a range of experiences, visits and trips.

Key Scientists

Throughout each topic, children will learn about key scientists from the past and present and how they have influenced, changed and developed the world we live in.

Impact

Children leave each year with the knowledge and skills required to enable them to access and apply to subsequent learning. Children will be aware of different scientists and their contribution to the world. Children will be able to make links to previous learning and understand the relevance of these connections.