



Biscovey Nursery and Infants' Academy

Teaching and Learning Principles

Subject: Science

'With strong roots we learn and grow together'

School Vision:

At Biscovey Nursery and Infants' Academy we aim to ensure that all children can develop the skills they need to become happy and confident learners who, with guidance and support, can reach their full potential.

Our curriculum ensures that we deliver a range of topics across the age phases which develops sequential learning where pupils know more and can do more, ensuring that they are ready for their next stage in education.

Our nurturing ethos endeavours to support all children and their families. Through this approach we are able to work together to ensure that we meet the needs of all learners in our school.

We pride ourselves on delivering beyond the academic curriculum, developing a child's individual character. Our core values run through all areas of school life and learning which allows the whole child to develop into a confident and caring young individual. The Biscovey child shows respect, and through self-belief and courage approaches learning with an inquisitive mind.

'With strong roots we learn and grow together'

Subject Intent:

We define our Science curriculum as the totality of a child's experience at Biscovey Nursery and Infants' Academy. This includes not only what activities and learning they are immersed in but also the processes involved in how the child learns.

Our aim is to ensure that children enjoy learning science and can access all activities with a high level of engagement. Topics are selected carefully to meet the interests of our pupils and each topic has a high-quality text to promote language and vocabulary for all learners. The curriculum is progressive from EYFS to KS1 and allows learners to revisit previous science skills. This approach supports children in learning more and remembering more.

Our science curriculum is ambitious and flexible to meet the needs of all individuals by setting high expectations for all learners. We recognise the importance of enabling all young learners to meet their full potential, including those with SEND. These pupils are supported through scaffolding and differentiation.

The science curriculum is enriched in a variety of ways through the wider curriculum of trips, visitors and cross-curricular links to promote a love for science. We know that consistently great teaching,

immersive experiences and a safe, happy environment are the key to building the foundations for future learning.

Subject Implementation:

Science teaching at Biscovey Nursery and Infants' Academy aims to give children a strong understanding of the world around them.

Children are taught in a cross curricular way. We use a topic-based approach where science vocabulary is taught explicitly and is reinforced through high-quality texts. This allows learners to communicate their understanding of science effectively. Children are taught specific skills, vocabulary and knowledge to help them to develop their ability to think scientifically. The skills of scientific enquiry are embedded through sequenced lessons linked to topics. Each lesson is progressive and allows children to revisit, reflect and build upon prior knowledge.

It is our aim to nurture and develop independent and curious explorers that go on to investigate and question the world around them.

Subject Impact:

We aim for every child to be able to:

- Build strong foundations in the scientific skills of enquiry which help them better understand the world around them.
- Develop an understanding of how science has, and continues to change our lives within their immediate locality as well as the wider world.
- Develop and use a rich vocabulary which enables them to articulate their understanding of taught concepts.

Skills Progression:

At Biscovey Nursery and Infants' Academy, we use the objectives from the National Curriculum to ensure good coverage and challenge for all. We carefully track the objectives to ensure that new learning builds on prior knowledge and consolidates understanding showing sound progression across the depth and breadth of the subject.

Within lessons and topics, we ensure sufficient time is given to recall prior learning so that children are able to see and develop links within their learning.

For further information, please see the subject overview grid and the skills progression document.

Contextual example:

For example, when studying senses, pupils in Year One might explore, name and discuss a variety of materials, using their senses to explore them. They will develop and expand their vocabulary in order to describe the properties of materials. They will begin to develop their Scientific skills of enquiry by performing simple tests and recording their findings in a variety of formats.