



Buckfastleigh Primary School 2019/20

Primary Science Rationale

"Science is life – it's everything, all around us!" - a Buckfastleigh pupil, Year 1

Curriculum Intent

At Buckfastleigh Primary School we value science as a core subject and an opportunity to create curious and engaged learners.

The 2014 National Curriculum for Science aims to ensure that all children:

- Develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- Develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them
- Are equipped with the scientific skills required to understand the uses and implications of science, today and for the future. We understand that it is important for lessons to have a skills-based focus, and that the knowledge can be taught through this

Through good teaching and learning, children are able to access opportunities to develop their understanding of new concepts, pursue new interests and increase their understanding of the world around them.

We enrich their time in our school with memorable, unforgettable experiences and provide opportunities, which are normally out of reach – this piques their interests and passions. For example, in the autumn term, we arranged for Space Odyssey (a mobile planetarium) to visit our school. Children in both KS1 and KS2 were immersed in an exciting and inspirational learning experience. We are currently looking forward to celebrating National Science Week.

We believe all children should be given the tools and opportunities to succeed in whatever subject they chose. We want to create microbiologists, astronauts and palaeontologists of the future, and we believe that we should set no limits on what our children can achieve.

'SAFE, RESPECTED AND READY TO STEP OUT INTO THE WORLD'

Belong

Creative

Sustainability

Curious

Empowered

Curriculum Implementation

- A clear and comprehensive scheme of work in line with the National Curriculum where teaching and learning shows progression across all key stages within the strands of Science.
- We empower the staff at Buckfastleigh Primary to plan and deliver under the guidance and support of subject leaders.
- Science is taught in planned and arranged topic blocks by the class teacher where possible, to have a project-based approach. This is a strategy to enable the achievement of a greater depth of knowledge.
- Working scientifically principles are embedded into lessons.
- We build upon the learning and skill development of the previous years. As the children's knowledge and understanding increases, and they become more proficient in selecting, using scientific equipment, collating and interpreting results.
- Regular events, such as Science Week, allow all pupils to come off-timetable, to provide broader provision and the acquisition and application of knowledge and skills. These events often involve families and the wider community.

Impact

- Most children will achieve ARE in science during their academic year.
- Our engaging curriculum results in fun, high quality science education. Our aim is that children will retain knowledge that is pertinent to science with a real life context.
- Children learn the possibilities for careers in science, as a result of our community links and connection with the STEM association and local professionals, ensuring that children have access to positive role models within the field of science from the immediate and wider local community.
- The development of our outdoor space will enable children to continue their education through hands on-practical experiences in nature and their local environment.

Improvements

To improve in science at Buckfastleigh, our priorities are to:

- Improve consistency on planning within science, to ensure all skills and knowledge shows clear progression.
- Increase learning walks and observations in lessons – including talking to students to understand their experience.
- Implement the use of coaching/team teaching for teachers across the school
- Ensure all classrooms have a science display showing active learning

At Buckfastleigh Primary – We are scientists!

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