

Intent:

Believe

Children will have the scientific knowledge and a secure understanding of the scientific method to be able to hypothesize, analyse and make sense of the world around them.



Achieve

Children will develop a sense of deep curiosity and a love to investigate and deepen their understanding of how the physical world works.



Aspire



Children will learn to become critical thinkers and approach scientific enquiry with an understanding of the different variables and biases that can influence results.

At St Buryan Academy our science curriculum inspires a deep love of science as well as raising children's aspirations and understanding regardless of ethnic origin, gender, class, aptitude or disability. We aim to ensure that all children are equipped with the scientific skills required to understand the uses and implications of science, today and for the future and foster an awareness of the different pathways that can lead to a career in science.

- Every child receives a minimum of 1-hour high quality science teaching per week.
- Science is taught accurately and systematically both within and across each year group and key stage so that new knowledge is built upon the secure foundation of established understanding.
- Science Teaching is underpinned by pedagogical knowledge of how teacher questioning can guide learners.
- To ensure continuous assessment, intervention and development within science through the use of pre-topic assessments and end of unit scaled assessments.
- To ensure developmental feedback is consistently high quality throughout the School and extends and develops pupils' ability to link new knowledge into existing understanding
- To develop a vocabulary-rich and investigation-rich science curriculum which allows pupils to apply their theoretical understanding to a range of experiments and understand how difference variables can affect their results.
- To provide the opportunity for each year group to study the work of prominent scientists and appreciate their contribution to world around them, raising the profile of science in society.

Implement:

Coverage through Science curriculum & extra-curricular:

- Class teachers ensure that every pupils receives at least one hour of high quality science teaching every week.
- A whole school science overview is followed by all year groups in order to ensure that the national curriculum is covered thoroughly and systematically and that knowledge and understanding that has been acquired in previous year groups is deepened and built upon in subsequent ones.
- The Twinkl and Developing Experts schemes of work are available to all teachers to assist with planning and subject knowledge. Teachers are also encouraged to develop bespoke lessons in science based on their deep understanding of the curriculum and the specific needs of their individual classes.
- St Buryan Academy will implement a Science week which will take place every year. Each of these weeks inspires our pupils to engage more deeply with science, increases science capital and raises the profile of the subject.
- Whole school trip to Eden Project with scientific focus take place yearly and help to increase science capital and raise the profile of the subject.

Assessment:

- Science Lessons are evidenced in Science books or floor books in KS1 every week.
- End of unit scaled assessments inform teacher assessment.
- Concise learning objectives and success criteria are available each lesson for each pupil to assess their understanding against.

Monitoring:

1. Science book monitoring ensure high quality teaching is taking place in every year group every week and ensure systematic coverage of the science curriculum.
2. Drop in sessions and lesson observations.
3. Peer teaching.

Impact:

Data (2021/22):

Data to be entered at the end of the academic year

Monitoring to take place termly

Community/families:

-Work with local businesses such as Porthcurno Museum

Current Priorities and Next Steps

1. **To plan and deliver a whole school Science Fair to involve families and the community.**
2. **To develop partnerships with local secondary schools, universities and businesses which will both inspire and inform our pupils with regards to the different pathways which will both inspire and inform our pupils with regards to the different pathways that can lead to a career in science.**