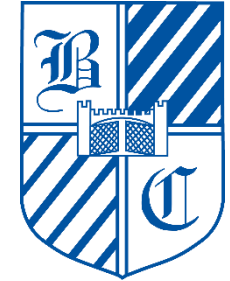


Science at Butlers Court



Our Butlers Court family nurtures kind, resilient, ambitious and curious children. Our caring environment supports well-being and self-belief, encouraging everyone to flourish. Through a wide range of experiences and opportunities, every child has the chance to shine, developing a love of learning and prepared for the ever-changing world and a future of possibilities.

Curriculum Intent

We offer all children a broad and exciting curriculum that inspires creativity, builds strong subject knowledge, and makes learning enjoyable and meaningful.

We nurture curiosity and develop essential skills such as problem-solving, communication, and independent thinking through engaging and memorable experiences.

We value every child's voice, encouraging them to express their opinions and take an active role in school life.

Our Values

Resilience

Honesty

Responsibility

Respect

Tolerance

Honesty

Curriculum Intent – We aim to ...

- Enable pupils to be confident, courageous and resilient scientists
- Deliver an investigative based curriculum where pupils are encouraged to ask questions and search for answers
- Develop an enquiry based approach to science lessons
- Support all pupils in accessing high-quality Science teaching.
- To develop the use of oracy in science lessons throughout the school, encouraging competent use of scientific vocabulary.
- Foster a love of learning where pupils develop their passion for Science.

Curriculum Implementation – How we achieve this...

Our Science curriculum develops a growing understanding of sense of self for each pupil. Each topic includes a strong focus on the skills of scientific enquiry through an investigative and exploratory approach that makes learning memorable. Pupils will take a deep understanding of both science content and scientific method. We follow the Kapow and White Rose scheme of learning, which has a very practical approach. In addition, we have used Explorify – (Part of Stem Learning) to promote thinking skills and encourage children to develop their understanding of Scientific knowledge.

Curriculum Design

Our curriculum focuses on working scientifically, building skills through observations, investigations and practical activities. Through interactive lessons, pupils are encouraged to question, observe and investigate. They learn how science works and discover why science matters in the real world.

Enquiry Based Learning

Lessons adopt an investigative approach to teaching and learning where pupils are provided with opportunities to investigate a problem, search for possible solutions, make observations, ask questions, test out ideas and think creatively. In KS2, children are involved in creating their own hypothesis. They work collaboratively to find solutions and gain valuable skills when analysing the results.

Knowledge Rich Curriculum and High Quality CPD

Science is taught with knowledge at its core. Each unit is built on so that the children develop a good level of understanding. Science knowledge is key to enable pupils to explain what they have learnt from a scientific process.

Staff have access to high quality CPD through STEM learning and Explorify.

Vocabulary and use of Oracy in lessons

Key vocabulary for each scientific topic will be displayed in classrooms. The pupils will know the meanings and pronunciations of key words and will be encouraged to use them in their writing and verbal explanations. Pupils will regularly revisit scientific vocabulary through the use of knowledge organisers and 'sticky starters'.

In addition, The Primary Science Teacher Trust (PSTT) provides additional support through webinars of different Science units. Teachers are encouraged to share good practice and are given feedback on teaching through termly learning walks.

The pupils will be given regular opportunities for scientific discussions to develop their oracy skills. Discussions between classes will enable the children to tackle misconceptions and will encourage curiosity to flourish.

Enrichment and Cross Curricular

Pupils are encouraged to see Science beyond the classroom. Scientific visits enable pupils to apply their learning to real life contexts and have opportunities to work alongside scientists, i.e Science Oxford in Year 2 and Winchester Science Centre in Year 6. An annual Science week promotes excitement and enthusiasm for Science throughout the school and is themed based. Science clubs in KS1 and KS2 aim to engage keen scientists and ensure that they continue to maintain curiosity.

We use our science curriculum to support and enhance our wider curriculum, for example in our termly outdoor learning days, EYFS Forest School sessions and planting and growing activities.

Practical Approach

Practical work is a vital element of our school's science as hands on learning experiences are key to the development of skills. Good quality practical work engages pupils with the process of scientific enquiry and also communicates the awe and wonder of the subject.

Assessment and Retrieval Practice

Staff continually assess pupils throughout each lesson and will support where needed. Teachers regularly assess understanding of key concepts and investigation techniques used through discussion, sticky starters and observation. Summative assessments take place at the end of each unit. Quizzes are used to assess understanding for effective retrieval practice. Assessments are used to inform future planning.

Inclusivity

The content of our curriculum is not reduced for pupils with SEND. We ensure that it is amended to suit their needs. Adaptations concentrate on how content is taught rather than changing the content. High expectations exist for all pupils at their own level of understanding.

Curriculum Impact

- Pupils feel that they are scientists. They are engaged in their learning and share a passion for Science.
- Pupils are confident in the use of key vocabulary in a range of contexts.
- Pupils demonstrate good progress from their starting points.
- Pupils have the ability to explain their own scientific thinking and understand that science is constantly developing and improving.
- Pupils can recognise and appreciate the diversity of scientists in Britain and around the world.
- Pupils are confident in conducting scientific experiments and talking about their learning.