



SPOTLIGHT ON SCIENCE

This half term, our 'of the week' is Scientist of the week, but what does Science look like at Barkisland? What does it mean to be a scientist at our school? What does a typical Science lesson look like? This mini newsletter will give you an overview of Science at Barkisland.



Our Science Scheme

Here at Barkisland we follow The Grammarsaurus Science Curriculum, with all classes having a weekly Science lesson. The Grammarsaurus Science Curriculum aligns with the **National Curriculum**. The scientific knowledge and conceptual understanding has been mapped to ensure that pupils who follow this sequence of learning have ample opportunity to make progress in science, across the three Science Subjects: Physics, Biology and Chemistry, by knowing and remembering more science content. All staff are very familiar with the Grammarsaurus Curriculum, as we also follow their schemes for Writing, History and Geography. Each unit of learning in each class has an overview for staff to ensure that key concepts from previous years are built upon and future learning is prepared for. Cumulative quizzes start most science lessons which enable children to embed the substantive knowledge for that area of learning. Science vocabulary has a clear progression to enable all children to thrive.



[Click here to view our Science Curriculum](#)



What about Working Scientifically?

Working scientifically is a crucial aspect of the Science curriculum as outlined in the National Curriculum. It involves developing children's knowledge, skills and understanding of how to conduct experiments and investigations effectively.

From Nursery to Year 6, students are gradually introduced to a range of scientific concepts and skills that build upon each other. In the early years, children are encouraged to explore the world around them through hands-on activities and simple investigations. As they progress through the primary years, they learn to ask questions, make predictions, test hypotheses, and draw conclusions based on evidence.

Experiments and investigations play a central role in developing our children's scientific skills. These activities not only help children understand scientific concepts but also enable them to practice key skills such as observation, measurement, data recording, and critical thinking. Children learn how to plan and conduct experiments, analyse results, and communicate their findings effectively.

By engaging in a wide variety of practical activities, children develop a strong foundation in scientific enquiry that prepares them for more advanced study in secondary school and beyond. Working scientifically not only promotes a deeper understanding of the natural world but also helps students develop essential skills that are valuable in everyday life.



SCIENCE WEEK

Week beginning 24th June is Science Week. This is an annual event that promotes hands-on learning experiences in various Scientific disciplines. Activities include interactive workshops, experiments, and demonstrations to engage children in exploring the wonders of science. By involving children in real-world investigations, Science Week cultivates a strong interest and enthusiasm for Science subjects.



What can be done at home?



- [BBC Bitesize KS1 Science](#) A wealth of materials to support home learning with videos, activities and games in all curriculum areas.
- [BBC Bitesize KS2 Science](#) A wealth of materials to support home learning with videos, activities and games in all curriculum areas.
- [Maddie Moate](#) The popular children's television presenter has her own YouTube channel and is delivering a daily science lesson "Let's Go Live with Maddie & Greg". Her channel has a wealth of educational videos.
- [The Royal Institution - Science Lives Here - Experimental](#) A series of short films, activities and resources making it fun, easy & cheap to do science experiments at home with children.
- [Paignton Zoo - School from the Zoo](#) Insightful video lessons to enjoy at school and at home to complement classroom learning.
- [Paignton Zoo - Wild at Home](#) A collection of downloadable resources to inspire and support science learning at school and home.
- [Chester Zoo](#) A range of resources to help with teaching & learning at home and school.
- [Woodland Trust](#) 10 nature activities for children to do at home.
- [STEM Learning](#) Primary science, maths, computing and DT resources and activities to support home learning.
- [Science Museum](#) Lots of learning resources including activities, games and videos.
- [WOW Science](#) Primary science activities, games & videos.
- [Primary Science Teaching Trust - Science Fun at Home](#) Fun science activities to try at home.
- [Science Sparks](#) Science Experiments for Kids.
- [Sublime Science](#) 101 fun science experiments you can do at home with 'stuff' you've already got.
- [Marvin and Milo](#) Lots of simple & exciting mini experiments to explore physics.
- [Kids Invent Stuff](#) This is a YouTube channel engaging children in real engineering projects with a chance to get their invention ideas built by real engineers. A new challenge is set

Every year, we have a termly Science club for KS2. The Science club is an engaging extracurricular activity where children explore Scientific concepts through hands-on experiments and activities. The club fosters curiosity and critical thinking skills by encouraging children to problem-solve and collaborate in a fun and interactive way.

