CURRICULUM
SCIENCE

CHANTRY COMMUNITY PRIMARY SCHOOL

Intent:

At Chantry Community Primary School, we want all our pupils to have a love for the world they are growing up in. In every child there is a hidden scientist waiting to come out. Our aim is to ensure that all children can confidently develop and deepen their own understanding of the world around them as they are already curious. We aim to prepare children for life in an increasingly scientific and technological world. To develop scientific thinking, we build on children's natural curiosity and enthusiasm for learning. We believe that a real-world, practical, exciting, and challenging science curriculum is the entitlement of all our children. We want them to be able to build skills that will not only help them explain and predict how thing can or might happen around them but also view the world from different points of views and understand that there can be more than one reason for something happening.

Implementation:

At Chantry Community Primary School, we follow the National Curriculum Programme of Study which covers the learning for pupils from EYFS to Key Stage 2. We have selected a scheme of work that we feel works alongside the National Curriculum and covers all the relevant statements and targets for EYFS, Key Stage 1 and Key Stage 2. Science is planned, taught and assess using The Kent Science Scheme. This scheme aligns with the National Curriculum, offering pupils the opportunity to learn about the products of science so that they can explain the material world and develop a sense of excitement and curiosity about natural phenomena. Pupils will also learn about the practices of science so that they know how scientific knowledge becomes established through scientific enquiry. Each unit of the Primary Science Scheme of Work (from Year 1 through to Year 6) is helpfully divided into year groups and terms and covers the relevant topics for the full academic year.

Science at Foundation Stage is introduced indirectly through activities that encourage the child to explore, problem solve, observe, predict, think, make decisions and talk about the world around them. It's called 'knowledge and understanding of the world'. Early Years science also helps children with skills in other Foundation Stage areas of the national curriculum, such as physical development and creative development.

We supplement the science curriculum with experiences beyond the classroom such as special events e.g. Tim Peake's Mission to Space and science days/weeks.

In KS1 children should:

- Observe, explore and ask questions about living things, materials and the world around them.
- Work together to collect evidence to help answer questions.
- Use reference materials to find out more about scientific ideas.
- Share their ideas and communicate them using scientific vocabulary and drawings.

In KS2 children should:

- Apply their knowledge and understanding of scientific ideas to familiar phenomena, everyday things and their personal health.
- Carry out more systematic investigations, working on their own and with others.
- Communicate their ideas using a wide range of scientific language, conventional diagrams, charts and graphs.

We adapt the curriculum and learning environment for pupils with SEND. All pupils follow the National Curriculum at a level and a pace that is appropriate to their abilities. At times and when it is felt appropriate, adaptations to the curriculum may be implemented.

Impact:

We encourage our students to enjoy the curriculum we deliver. We ensure that children understand the learning behind their lessons as well as understanding what they are learning. We aim that all students can see the progression of their skills and develop their understanding using the correct scientific knowledge and vocabulary. We feel that children have a sense of pride in the way that they showcase their work and we as a school always share and celebrate the children's work. We also look for evidence to celebrate children's success by termly reviewing pupil's knowledge and skills through the science assessment, pupil voice and the chances where we can observe teaching and learning.

Useful Websites:

The following are engaging and fun for all pupils across EYF, KS1 and KS2 with a big range of coverage across all the topics

https://wowscience.co.uk

https://sciencebob.com

https://www.stem.org.uk/remote-lessons

https://explorify.wellcome.ac.uk/

https://www.sciencekids.co.nz/

https://www.natgeokids.com/uk/category/discover/science/

https://www.brainpop.com/

https://www.topmarks.co.uk/Search.aspx?Subject=26

https://www.bbc.co.uk/bitesize/subjects/z7nygk7

https://www.sciencefun.org/kidszone/experiments