



Science

Intent:

- To be able to work scientifically
- For all children to be exposed to the five enquiry approaches that children need to learn to recognise and use:
 - fair testing
 - observing over time
 - pattern seeking
 - identifying and classifying
 - research using secondary sources
- For all children to record data and express it in an age appropriate way. Using mathematical skills to collect, present and analyse.
- For all children to develop scientific knowledge and conceptual understanding through the teaching of biology, chemistry and physics.
- For all children to understand the uses and implications of science, in the past, today and for the future.
- For all children to build up a specialist vocabulary which they can use to build secure foundations by using discussion and remedying misconceptions.

Implementation:

- Providing two hours of science per week, with regular opportunities for hands on experimentation.
- A progression of skills and objectives built upon to ensure children will develop as enquiring scientists.
- Lessons will be investigative, enquiry based and will lead to the development of key knowledge.
- Prior knowledge and skills will be revisited and built upon throughout each topic
- Long term plan followed to ensure coverage of units of work, followed in line with the guidelines set out in the NC.
- Work closely with Science Learning Partnership to ensure progression of skills preparing pupils for their next phase of education and to keep abreast of any opportunities.
- Linking STEM subjects so that children learn the real world applications of their learning.
- Invite parents into school to share what the children have been learning during whole school science cafes and family workshops.

How are we developing Cultural Capital?

- Children are provided with opportunities beyond the National curriculum to further and support their understanding through visitors and visits to further and higher education institutions.
- Through learning about local STEM employers within their local community, country and the wider world, children are able to gain a deeper appreciation for scientific opportunities open to them, raising aspirations and promoting a lifelong love of science.
- Children have the opportunity to discuss and share their own ideas and observations, and learn how to record and share experimental results with their peers and families through Science Cafes.
- Children have the opportunity to learn about and experience the science festivals and celebrations of science such as British Science Week.