Curriculum vision statement for Science

Our Science work is mainly taught through topic titles appropriate to the pupils age range. These have been chosen to cover the knowledge identified in the National Curriculum or Early Years Foundation stage framework. The teachers then plan focussing on the scientific skills of experimenting, observing and recording. An emphasis at Brington school is for children to further develop their literacy skills through their work in Science, using their knowledge in creative ways. Every year, we involve the community in a series of work shops for Science week to promote pupils interests in STEM. We enable children to develop an understanding of plants and animals further with large outdoor projects such as pig rearing and our school greenhouse therefore teaching children skills they can use in their future lives.

Intent

- All children will follow the progression of skills and develop their science skills in the following areas…
  - Planning, communication and sources
  - Enquiry, testing and obtaining and presenting evidence
  - Observing and recording
  - Considering evidence and evaluating

- All children will have opportunities to explore their own ideas with a range of equipment linked to an area of science.

- All children will be encouraged to use reading as a method of developing knowledge and asking and answering questions.

Implementation

- Teachers plan the curriculum road maps together to share expertise and ideas. The road maps ensure that children's learning builds on prior learning and knowledge.

- Research is carried out using online resources, texts, real experiences and carrying out experiments. Staff use live marking to support pupils in this area and develop their understanding further.

- Written work is assessed using live marking throughout the lesson, misconceptions are addressed as part of the lesson.

- Visitors will come into school to demonstrate skills or share experiences of Science in the wider world. These may link to other areas such as design and technology.

- Knowledge that we expect all pupils to learn, will be planned using the working walls in the classroom and assessed at the end of the unit of work.

- Quiz boxes in classrooms will contain questions from prior learning to promoter longer term knowledge around scientific topics.

Impact

- All children will gain knowledge about all areas of Science identified in the national curriculum and early years framework. They will use a range of research skills, questioning and discovery to continually build on previous learning.

- The assessments will show children have a high understanding of scientific concepts.

- Children will develop transferable skills of problem solving, investigation and explaining their findings using data and descriptions.