Science Curriculum Statement

Intent

In the Science Department it is our intention to provide all children, regardless of their special needs, with a broad and balanced science curriculum. We aim to promote positive attitudes to Science as an interesting and enjoyable subject, and also to develop pupils` awareness of how science impacts on their everyday life, Pupils are encouraged to adopt a critical approach which is based on scientific evidence. We aim to cultivate an environment conducive to learning where we encourage and value pupil opinions, ideas and contributions, and expect pupils to value and respect contributions of adults and peers. Our intention is for pupils to enjoy learning, make progress and achieve at an appropriate level.

Implementation

Our Secondary curriculum is organised using the National curriculum Programmes of Study for Kay stage 3 and AQA GCSE and Entry Level qualifications for Kay Stage 4. Pupils arrive in year 7 with a wide variety of prior science experiences. They are assessed to determine their scientific ability against a set of science "can do" statements. This becomes the baseline assessment for their science assessment portfolio recorded via Classroom Monitor. Science is taught and assessed at Primary level by science objectives being linked to topic work.

We aim to develop the scientific skills of planning and carrying out practical investigation, prediction, hypothesis, manipulation and control of variables, recording of results and evaluation of evidence, alongside exposing pupils to a wide breadth of scientific ideas, facts and knowledge. Pupils are encouraged to use and enhance their numeracy and literacy skills in a science-based context. Our curriculum also provides opportunities for pupils to form opinions on the social, moral, spiritual and cultural aspects of science and wherever possible science content is linked to British values.

Impact

All pupils have the opportunity to gain a recognised qualification in Science.

Pupils will experience a practical approach to Science, exposing them to use of a wide range of science equipment and ideas. They will have the opportunity to become confident and competent to independently use such apparatus in scientific investigation and question other people's ideas. This will help develop fine motor skills, sequencing and planning skills, fact finding skills, memory, foster time management skills and raise awareness of the need for rules, routines and procedures to keep individuals and the environment safe at all times.

We believe that the skills learnt in Science will help give pupils confidence to function more successfully in their community, both in real life and online, and will enable them to make better informed life choices in the future.