

SMSC

Spiritual Development

- Science and spiritual ideas do cause conflict but in a modern society it is important to understand why these conflicts arise so we can respect the views of others and move forward.
- Involves the search for meaning and purpose in natural and physical phenomena
- Reflect on the wonder on the natural world.
- Sense of enjoyment and fascination in learning about themselves, others and the world around them.
- Willingness to reflect on their experiences.

Moral Development

- Pupils to become increasingly curious
- To develop open mindedness to the suggestions of others and to make judgments on evidence not prejudice
- Scientific developments may give rise to moral dilemmas
- Consider the environment recycling- plastic
- Sustainability- planting

Social Development

- Scientists are collaborators. Sharing ideas, data, and results for further testing and development by others.
- We encourage pupils to work together on scientific investigations and to share results to improve reliability.
- Group and practical work
- Taking responsibility for their own and other people's safety.
- Pupils consider the social impact, both positive and negative, of science and technology.
- Pupils are willing to participate within the community at Maths and Science quiz.

Cultural Development

To understand that scientific development comes from all across the world, from people of all backgrounds and cultures.

- Celebration of current events- linked to scientists
- Visitors in school – recycling, science workshops

SEN

To overcome potential barriers to learning in Science some pupils may need:

- Inclusive learning environment- Scientific language on displays, Knowledge organisers
- help in managing the written communication or reading a text a multisensory approach- practical work
- access to adapted resources to overcome difficulties with mobility or manipulative skills.

CAREERS

Soil Scientist, Geologist, Animal Scientist,
Farmer, Nurse, Doctor, Vet, Teacher



End of Year Expectations

SCIENCE

Year 3

MATHS

Data handling- tally charts, bar charts
Reading scales on force meters- units of measurements
Measuring- distance linked to forces. Metre rules/tape measure
Interpreting data-
Using measuring jugs- scale
Mathematical facts and units of measurement
Venn diagrams sorting animals and plants

LITERACY

- Speaking and listening, questioning, discussion, predicting, observing,
- Reading scientific texts- scientists. Explore science 'News@ websites
- Biographies- research and create biographies of the scientists or inventors for year group,
create character profiles or interview the scientists through hot seating.
- Explanation Text- explain how or why something works within a science investigation.
- Researching facts using resources.
- Read and write facts and observations
- Write simple investigations and conclusions- consider features of instructions (imperative verbs)
- Learning and using scientific language and key words linked to themes
- Using descriptive language about animals and plants
- Observe and describe- scientific reactions
- Linking science through stories -Pebble In My Pocket tells the dynamic story of rock formation; showing the reader the processes that the pebble goes through from its beginnings in a fiery volcano 480 million years ago.

COLLABORATION

Community events- Lacey In Bloom
Trips/visits- School in the Woods
Hook Days- Nature Area
Learning Shares/Class assemblies
Collaboration and Peer work- outdoor learning
planting seasonal.
Science week- Investigations, scientists

