End of Year Expectations
SCIENCE
Year 6

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

- To develop open mindedness to the suggestions of others and to make judgment on evidence not prejudice
- Pupils to become increasingly curious
- Scientific developments may give rise to moral dilemmas
- Considering the environment
- Recycling- plastic

Social Development

- Group and practical work
- Team working skills and to take responsibility
- Taking responsibility for their own and other people's safety

Cultural Development

- To understand that scientific development comes from all across the world, from people of all backgrounds and cultures.
- To know that important discoveries have come from other parts of the world as well as America and Uk.
- Understand that different cultures around the world can have different impacts on the planet and what impact more economically developed countries have on poorer areas. E.g clothes industry – Ghana
- To explore how scientific discoveries have shaped the, beliefs, cultures and politics of the modern world.

Maths

Data handling, statistics. averages
Interpreting data- anomaly
Measuring-linked to light, shadows
Mathematical facts
ICT for measuring and recording data using sensors.
Classifications- Carroll diagrams, tree diagrams

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 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 –One Smart Fish by Christopher Wormell provides a meaningful context for learning about adaptations and evolution.

COLLABORATION

Community events- Laceby In Bloom
Trips/visits- Science Quiz
Hook Days- Nature Area
Learning Shares/Class assemblies
Collaboration and Peer work- outdoor learning planting seasonal.
Science week- Investigations, scientist

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

Electrical and Electronics Engineer, Biologist, Pathologist, Teacher, Nurse , Doctor, Sociologist, Psychologist, Vet, Botanist