

OUR BLESSED SAINTS FEDERATION

Science with SMSC

Spiritual

Explore beliefs and experience; respect faiths, feeling and values; enjoy learning about oneself, others and the surrounding world; use imagination and creativity; reflect.

- Ability to be reflective about their own beliefs, religious or otherwise, that inform their perspective on life and their interest in and respect for different people's faiths, feelings and values
- Sense of enjoyment and fascination in learning about themselves, others and the world around them
- Use of imagination and creativity in their learning willingness to reflect on their experiences

At St. Luke's we foster spirituality by:

Exploring the wonder about what is special about human life.

Developing awe at the scale of living things from the smallest micro - organism to the largest tree.

Appreciating the beauty of the world around them.

Understanding how sometimes 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.

Appreciate how all living things are interdependent and work together.

Know how beliefs about foods affects everyday life.

Appreciate food which keeps our body's healthy and about fair share of distribution of the world's resources.

In SC1 we develop this through planning, doing and reviewing their investigation of the world around them.

Reflect on new life when discovering life cycles of different animals.

Fascination of the world around them during Forest School activities learning about forces, zip wires, discovering the beauty of creation.

Understanding of sound including hearing and lack of hearing.

Moral

Recognise right and wrong; respect the law; understand consequences; investigate moral and ethical issues; offer reasoned views.

Pupils' moral development is shown by their:

- Ability to recognise the difference between right and wrong and to readily apply this understanding in their own lives, recognise legal boundaries and, in so doing, respect the civil and criminal law of England
- Understand of the consequences of their behaviour and actions
- Interest in investigating and offering reasoned views about moral and ethical issues and ability to understand and appreciate the viewpoints of others on these issues

At St. Luke's we foster morality by:

Ensuring pupils realise that moral dilemmas are often involved in scientific developments. Understand the importance of how decisions made about the environment can have a huge impact on future generations.

Explore moral issues linked to the use of products - should we test medicines for humans that could save lives on animals causing them cruelty?

To develop open mindedness to the suggestions of others and to make judgments on evidence not prejudice.

To develop safe working practices during investigations.

Responsibility to work cooperatively in a group to complete investigations and tasks.

Foster a respect for equipment.

Distribution of the world resources* see above.

Understanding drugs misuse through STAR project.

Develop a responsibility for looking after the world and resources we have by picking up litter etc.

John Muir Award in year 6 develops the responsibility we all have to help the environment by: discovering wild places, having adventures, conserve the environment and sharing their experiences with others.

Understanding of how we can improve the environment by using renewable energy sources.

Social

Use a range of social skills; participate in the local community; appreciate diverse viewpoints; participate, volunteer and cooperate; resolve conflict; engage with the 'British Values' of democracy, the rule of law, liberty, respect and tolerance.

Pupils' social development is shown by their:

- Use of a range of social skills in different contexts, for example working and socialising with other pupils, including those from different religious, ethnic and socio-economic backgrounds
- Willingness to participate in a variety of communities and social settings, including by volunteering, cooperating well with others and being able to resolve conflicts effectively
- Acceptance and engagement with the fundamental British values of democracy, the rule of law, individual liberty and mutual respect and tolerance of those with different faiths and beliefs; they develop and demonstrate skills and attitudes that will allow them to participate fully in and contribute positively to life in modern Britain.

At St. Luke's we foster social interaction by:

Group practical work provides opportunities for pupils to develop team working skills and to take responsibility.

Pupils must take responsibility for their own and other people's safety when undertaking practical work.

Pupils are encouraged to consider the benefits and drawbacks of scientific and technological developments and the social responsibility involved.

Pupils must consider their impact on the world around them and start to look at what we can do to help the next generation have a habitable planet.

Develop an understanding that scientists work together on research projects towards a common goal.

Enabling children to show the local community what they have learnt in our annual science fair.

Studying a range of famous scientist and their view of the world around them and how we must look after them.

Visiting a range of local areas of interest including Forest Schools and interactive science areas at RAF Cosford and Enginuity

Cultural

Appreciate cultural influences; appreciate the role of Britain's parliamentary system; participate in cultural opportunities; understand, accept, respect and celebrate diversity.

Pupils' cultural development is shown by their:

- Understanding and appreciation of the wider range of cultural influences that have shaped their own heritage
- Willingness to participate in, and respond to, for example, artistic, musical, sporting, mathematical, technological, scientific and cultural opportunities
- Interest in exploring, understanding of, and respect for cultural diversity and the extent to which they understand, accept, respect and celebrate diversity, as shown by their attitudes towards different religious, ethnic and socio-economic groups in the local, national and global communities.

At St. Luke's we foster culture by:

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

Through the study of famous scientists an understanding that some of science's most important discoveries have come from other parts of the world.

Pupils will explore how different needs in other parts of the world mean different scientific projects and developments occur.

Pupils will look how we need to share the worlds resources more fairly.