



Spiritual, Moral, Social and Cultural Curriculum

Science

The Conisborough Science department contributes to SMSC development by:

Placing value on **spiritual development** through the consideration of issues such as the 'our place in the universe' and the various theories surrounding the formation of the Universe.

Emphasis is also placed on the following:

- comparing the scale of living things from the smallest microorganism to the largest tree.
- the complexity of all living things.
- the fascination about the extent of geological time.
- the beauty of natural objects or phenomenon – crystals, rainbows, the Earth from Space.

Moral development is enhanced through the consideration of issues such as the effects of human activity on the planet e.g. extinction of species, global warming, pollution.

- genetic modification to help end world hunger.
- IVF and how it affects the life of various individuals in our society.
- human cloning.
- appreciation that discoveries in Science can have both harmful and beneficial effects (nuclear fission and radiotherapy in treating cancer).

Social development is enhanced by students being encouraged to show respect for other people's ideas.

- developing social skills through group and practical work.
- considering the safety of others during practical work.
- communicating ideas and individual work effectively with others.
- considering the effects of Science on their lives e.g. enhancement of plant growth, use of artificial satellites, development of polymers, medicines.
- how the rights of others may be affected by pollution, building wind farms, etc.
- health issues linked to smoking, poor diet, lacking exercise.

Cultural development is enhanced by consideration of the work done by various Scientists e.g. Pasteur, Darwin, Wegener etc with a focus on work and inventions carried out by British scientists.

- drawing attention to how cultural differences can influence the extent to which scientific ideas are accepted, used and valued.
- considering the historical context that influenced the way new theories are considered e.g. motion of the Earth, evolution, plate tectonics, Big Bang theory.