



SMSC in Science

Spiritual

Science as a subject started when religious philosophers started to look for empirical answers to questions that arose as they looked at the wonders of the world around them. This same quest for answers is incorporated across Science, although perhaps most explicitly in the life Science modules, including evolution and the origin of the universe. Students are given the opportunity to consider alternative theories and explanations. Many strategies are used to allow students to engage with the world around them in an enjoyable and tangible way, including theoretical and practical activities, exploring their personal experience of phenomenon and the use of models, both physical and virtual.

Moral

In Science students are encouraged to discuss a wide variety of topics that have ethical dimensions, such as genetic engineering, stem cell research, drug testing, animal testing and cloning. Students are taught to listen to and respect the views of others. They also need to take into consideration the legal boundaries placed on these areas of Science. Students look in detail at the consequences of their own and others behaviours and actions. Areas studied include burning fossil fuels, drug taking, exercise, the importance of the three Rs (reduce, reuse and recycle).

Social

Throughout Science students have opportunities to work in groups of their peers, either teacher assigned or friendship groups, on a variety of tasks. Students must take responsibility for the own and other people's safety when undertaking practical work. Science staff uphold the ethos of the school which embraces British values and consequently do not tolerate any form of discrimination or abuse.

Cultural

Science is secular but the views of individuals from different cultural background can be used to promote discussion about ideas within Science. Credit is given to the scientific discoveries of other cultures and reference made to the modern day cooperation of scientists across the world. It is made clear that in many areas it

is essential that the World's Science community work together, for example to tackle climate change and to work towards solutions to health problems.