

Mutual Respect

Core Concept:

- Treat others as you want to be treated
- Respect for each other
- Working together

Mutual Respect in Science:

- Debates about ethical and moral issues, such as whether we should test drugs on animals, or whether nuclear bombs should be developed. All students are able to share their viewpoints respectfully

The Rule of Law

Core Concept:

- Understanding laws and why they are important
- Following rules to develop order

The Rule of Law in Science:

- When conducting practical work, we have to follow rules about Health and Safety to ensure the safety of everyone in the laboratory
- When conducting experiments involving animals, we have to abide by laws to ensure that animals are not treated cruelly
- When using radioactive sources, certain members of the department are trained as Radiation Protection Supervisors to comply with Health and Safety laws

British Values in Science

Tolerance of Different Faiths and Beliefs

Core Concept:

- Learning about different faiths and cultures
- Listen to other viewpoints
- Learning about diversity

Tolerance of Different Faiths and Beliefs in Science:

- Throughout the Science curriculum, scientists from different backgrounds will be discussed, including the challenges they faced because of their beliefs, viewpoints and protected characteristics
- When discussing contentious issues, for example theories about the formation of the Universe, all viewpoints are considered while teaching the scientifically accepted ideas
- Debates about ethical and moral issues, such as whether we should test drugs on animals, or whether nuclear bombs should be developed. All students are able to share their viewpoints

Democracy

Core Concept:

- Making decisions together
- The right to an opinion/voice

Democracy in Science:

- Science is a democratic discipline. When developing new theories, it has to be accepted by a wide number of scientists before it is considered a scientific theory
- Similarly, all experimental work has to be peer reviewed by others before it is accepted

Individual Liberty

Core Concept:

- Freedom of speech for all
- The right to make our own choices

Individual Liberty in Science:

- Students have opportunities that will allow them to use their knowledge and understanding to pose scientific questions and define scientific problems
- Students are introduced to the idea that Science cannot provide the answers to some questions, for example, where beliefs, opinions and ethics are important

