



SMSC Statement - Technology

Spiritual Development in Technology

Spiritual development is important in Technology, it encourages students to be creative and exercise their imagination. It urges students to be inspired and use their insight as they develop ideas. We encourage students to reflect on their own and other ideas and wonder about the purpose of human technological achievement.

Within our schemes of work we seek to develop these elements including:

- Design tasks which allow for creative imagination
- Product analysis which allows for the questioning of purpose
- Reflect on the abstract nature of aesthetics
- Studying the work of notable past designers and Engineers to explore the impact on the world and how technological innovation has been a factor
- Students taking time to reflect on the impact that their work has on themselves and others.

Moral Development in Technology

In Technology we seek to develop a sense of 'moral conscience' in our students, through focusing upon the moral dilemmas raised in designing and making new products. We teach students to understand the wider impacts on the environment when designing and making new products and expect them to consider carefully the materials & components they will use when designing and making. We encourage sustainable thinking through the active application of the '6 R's' and to highlight the impact on environmentally sensitive areas of the world. The 6 R's include: rethink, refuse, reduce, reuse, recycle and repair.

Within our schemes of work we seek to develop these elements including:

- Considering the safety of the manufacture of the products students produce.
- Students consider the environment, the effect of designing and making and long term sustainability of the planet.
- Preparing students to become responsible consumers.
- Considering the moral dilemma of technological advancement. To be able to argue the advantages/disadvantages e.g. automation and the development of robots replacing human job roles.
- Thinking about the impact of the use of woods, metals and plastics.
- Consider employees' rights in overseas manufacturing e.g. in Textile manufacture
- Explore the impact of fossil fuels on the world.
- Understanding of what constitutes a healthy lifestyle in Food Technology lessons.

Social Development in Technology

Social development is a key feature of Technology lessons. We teach the concept of self-regulation to ensure that students accept responsibility for their behaviour and the safety of others. We encourage students to give each other reminders when standards fall short of the collective expectation. This establishes and maintains a safe, secure, learning environment. We place an emphasis on developing the ability to work with other and to accept each other's unique personality. We encourage effective conversations about the work we do through self & peer evaluation, and to give and accept constructive criticism as a vehicle to improve students learning outcomes.

Within our schemes of work we seek to develop these elements including:

- Teaching students to cooperate when sharing equipment, and help one another in setting up more complex machinery.
- Considering the safety of those around them, as they move about the classroom and use equipment.
- Provide respectful peer assessment feedback. Listening and contributing in a manner which allows for constructive criticism.
- Encourages students to consider other viewpoints and communicate effectively.

Cultural Development Technology

In Technology students are taught to understand how a range of cultural influences impact on design over time. How for example industrial heritage, developments in fashion, demographics and the demands of society pull and push change. Students consider Design Movements, and how they developed within a historical period, though continue to have a place in the world, and influence our world view.

Within our schemes of work we seek to develop these elements including:

- Exploring the cultural influences on the food we prepare and eat.
- Preparing foods from around the world in Food Technology lessons
- Research and analysis of Design Movements – e.g. Art Deco, Bauhaus
- Study iconic designers
- Question the benefits of digital manufacturing v's handcraft.
- Looking at how products are developed differently in different countries based on their moral beliefs.