

SMSC opportunities in Design Technology

Spiritual	Moral	Social	Cultural
<p>Spiritual development has high importance in Design Technology. The process of creative thinking and innovation inspires students to bring out undiscovered talents, which in turn breeds a self-confidence and belief in their abilities. It also challenges and appeals to the creative instincts that have driven humanity to discover, adapt and overcome. Within our schemes of work we seek to develop these through KS3 and KS4.</p> <p>Spiritual development allows students the opportunity to exercise imagination, inspiration, intuition and insight. Through creativity and risk taking, in analysing, designing and manufacturing a range of products. It instils a sense of awe, wonder and mystery when studying the natural world or human achievement.</p> <p>Encouraging creativity allows students to express innermost thoughts and feelings and to reflect and learn from reflection, for example, asking 'why?', 'how?' and 'where?'.</p>	<p>In Design 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 expect them to consider carefully the materials & components they will use and include sustainability as a major focus in all areas.</p> <p>Moral education in Design Technology gives students an awareness of the moral dilemmas created by technological advances, for example, the effect that advanced manufacturing automation has had on employment and how globalisation has caused poverty and inequality in eastern Asia. It encourages students to value the environment and its natural resources and to consider the environmental impact of everyday products. It educates students to become responsible consumers.</p>	<p>Social development is a key feature of all Design 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 and secure learning environment.</p> <p>We place an emphasis on developing the ability to work cooperatively 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.</p> <p>Social education gives opportunities to work as a team, recognising others' strengths and sharing equipment. Design Technology promotes equality of opportunity and provides opportunities to use a range of social skills; participate in the local community; appreciate diverse viewpoints; volunteer and cooperate; resolve conflict; engage with the British values of democracy, the rule of law, liberty, respect and tolerance.</p>	<p>We seek to expand student's knowledge of cultural influences within Design Technology including an increasing awareness of the influences that digital manufacturing developments from other countries is having on the designing and making of products that we use.</p> <p>Cultural education reflects on ingenious products and inventions, it investigates how different cultures have contributed to technology and the diversity of materials and ways in which Design Technology can improve the quality of our lives.</p> <p>Design Technology is taught in diverse groups of mixed gender, allowing different ideas and viewpoints to be shared and respected in a productive manner. Project based teaching at KS3 and KS4 allows teachers to set challenges to explore and understand different cultures through research, practical experience and sensory immersion. Analysis and evaluation are key activities across KS3 and KS4 in Design and Technology. Students are encouraged to reflect on the impact their ideas and existing commercial products have on the rest of society.</p>

British values opportunities in Design Technology

Democracy	The rule of law	Individual liberty	Respect	Tolerance of those with different faiths
<p>Design Technology encourages children to work collaboratively and share their ideas when designing and making products. For example, when working on a design brief, children may be encouraged to listen to and respect the ideas and opinions of others, and to work together to achieve a shared vision. Our curriculum facilitates this by encouraging open communication and providing opportunities for children to participate in decision-making.</p>	<p>Design Technology teaches children about the importance of following rules and regulations when designing and making products. For example, when working with tools and equipment, children may be taught about the importance of safety and the need to follow specific instructions. Our curriculum reinforces this value by helping children to understand the importance of rules and regulations, and encouraging them to take responsibility for their own actions.</p>	<p>Design Technology encourages children to explore their own interests and ideas, and to express themselves creatively in different ways. For example, when designing and making a product, children may be encouraged to use their own unique personality and individuality in the design process. Our curriculum promotes this value by giving children the freedom to express themselves in different ways, and by encouraging them to explore their own interests and passions.</p>	<p>Design Technology teaches children about the diverse cultures and traditions that have shaped the world of design and technology. For example, when studying the design and technology of different cultures, children may learn about the different techniques, materials, and styles that are unique to each culture. Our curriculum encourages this value by promoting understanding and empathy for different cultures and beliefs, and by challenging stereotypes and prejudices.</p>	<p>Design Technology provides opportunities for children to learn about different religious and cultural traditions through the products they design and make. For example, when designing and making a product for a cultural celebration, children may learn about the traditions and beliefs associated with that celebration. Our curriculum promotes this value by providing opportunities for children to learn about different religious and cultural traditions through their design work, and by encouraging respect and tolerance for diversity. It will also ensure that teaching is inclusive and respectful of all students, regardless of their backgrounds or beliefs.</p>