

SMSC in Design Technology (Textiles, Product Design, Engineering, Vehicle Technology)

Spiritual education at The North Liverpool Academy involves giving pupils the opportunity to react to, reflect on, and wonder at the contribution of past generations to the simplicity and complexity of the made world and the variety of resources available to them.

Moral education at The North Liverpool Academy involves understanding that decisions to make things can have both positive and negative effects on environments.

Social education at The North Liverpool Academy in Design Technology enhances pupils' ability to co-operate together through activities such as designing and making. It also gives new and different goals in order to make something unique and helps pupils to assess objects in terms of usefulness, aesthetics, taste and cost effectiveness. This creates awareness that simple solutions can be used to solve complex problems. It can enhance their ability to respect ownership and to resist destructive behaviour and work together in a safe constructive way.

Cultural education at The North Liverpool Academy in Design Technology allows pupils the opportunity to value artefacts, designs and foods from their own culture and from other cultures and compare similarities and differences between how things were made or cooked in the past compared with how they are made today.

Examples of Spiritual, Moral, Social and Cultural Education in **Design Technology** include:

- Pupils having the opportunity to reflect and wonder how designs and technology controls aspects of the made world.
- Pupils producing a wide range of food dishes from various cultures and encouraging them to discuss the historical, cultural and geographical contexts that have created this diversity
- Teachers demonstrating the Computer Aided Manufacturing (CAM) process and pupils comparing and contrasting CAM with historical methods of manufacture.
- Wondering at the contribution of past generations to modern manufacturing techniques.
- Pupils disassembling a range of manufactured products and discussing problems concerning the recycling of materials that have fulfilled their use
- Working together in teams
- Discussing the constraints of materials and relevant inventions to the design process and discussing the number and range of countries which produce for markets all over the world today. This also looks at management and conservation of raw materials, including looking recycling, reusing, reducing material use.

- Consideration of the reduction of energy use within products and processes. This includes new technologies and alternative energy sources.
- Sustainability of raw materials including Carbon footprint.