

Design and Technology Intent Statement

Intent

At Silverdale Primary Academy, we believe that design and technology helps to prepare children for the on-going innovations and developments in our world. Children are encouraged to become problem solvers, combining practical skills with a design process to solve real problems. Using design and technology children can develop a critical understanding of its impact on the world around them.

At Silverdale Primary Academy, we have a varied curriculum which meets the needs of all pupils and provides opportunities for all children to develop as confident, independent learners. Our aims for design and technology are that children will develop imaginative thinking and will learn to talk about what they like and dislike when designing and making. Children will be encouraged to select appropriate tools and techniques for making a product, whilst following safe procedures. We will further children's enjoyment, satisfaction and purpose in designing and making. Children will be taught to understand and apply the principles of nutrition and learn how to cook. We encourage our learners to design, make, evaluate and use technological knowledge. We also develop the children's knowledge in cooking and nutrition and the products we create are always of quality as we consider prototypes, mechanics, materials, components, systems, through careful planning.

Experiences for pupils are:

- Inclusive
- Exciting
- Challenging
- Engaging

- Real and experiential
- Relevant to their context
- Influenced by pupils
- Progressive
- Values-led
- Safe

The design and technology curriculum is designed to include:

In Key Stage One children will think of an idea, make a plan and design their product. They will choose their tools and materials and explain why they have made those choices. Children then use their tools and materials to make their product and then finally evaluate their product.

In Key Stage Two children will use market research and ideas from others to inform their design process. They think about their target audience and can explain why the product will appeal to them. They then plan and design their product and evaluate their design process. Using a variety of tools and materials, including electrical components, children work accurately to measure and make their design. Work is then presented in a variety of ways and evaluated against a certain criteria.

We encourage all our learners to communicate their ideas, construct, design, draft, draw, evaluate and use estimation.

Implementation

The curriculum at Silverdale Primary Academy has been designed to ensure that children receive their curricular entitlement in a way which is meaningful to their:

- context
- stage of learning
- capabilities
- interests
- prior experiences

At Silverdale Primary Academy we provide a range of strategies and teaching resources such as: providing a range of construction materials- card, paper, glue, straws, glue guns, clay, wood, plastics modelling tools, construction paper and scissors. The English curriculum is reinforced through design and technology by giving children the opportunity to write plans, instructions, rationales and evaluations. Additionally, children will continue building their oracy skills by articulating ideas, comparing and contrasting their views with others. We also encourage the children to apply methods of calculation and measurement to real life situations.

Impact

Design and technology gives children the opportunity to develop their skills, knowledge and understanding of designing and making functional products. At Silverdale Primary Academy, we feel it is important to nurture creativity and innovation through design, and by exploring the designed and made world in which we live.