



Design & Technology Policy

DRAFT

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To be ratified by Governors

Purpose of Study

Design and technology is an inspiring, rigorous and practical subject. Using creativity and imagination, pupils design and make products that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values. They acquire a broad range of subject knowledge and draw on disciplines such as mathematics, science, engineering, computing and art. Pupils learn how to take risks, becoming resourceful, innovative, enterprising and capable citizens. Through the evaluation of past and present design and technology, they develop a critical understanding of its impact on daily life and the wider world. High-quality design and technology education makes an essential contribution to the creativity, culture, wealth and well-being of the nation. Hunslet Moor Primary School prides itself on providing a creative, inspiring DT lessons throughout the whole school. Through DT we hope to offer diverse and appealing DT topics that are not only in DT but through the whole curriculum. (National Curriculum, 2022)

Curriculum Intent

At Hunslet Moor Primary School, we believe our Design and Technology (D&T) curriculum is an essential part of our broad balanced curriculum allowing all children to have access. We aim to provide the children a practical, inspiring subject which supports our children in acquiring, developing and embedding key skills.

We believe in promoting enjoyment, satisfaction and purpose in designing and making. Our D&T curriculum will enable our pupils to investigate how things work, communicate ideas and information through a variety of media, allowing them to develop visual literacy. Our teaching will also allow pupils to think critically and to evaluate their own work and that of others, thus developing a specialist vocabulary.

Through our curriculum, which reflects the National Curriculum Programmes of Study. We will provide opportunities for our pupils to:

- think about what different products are used for and the needs of the people who use them
- to consider and select appropriate tools, materials (including sustainable materials) and techniques for making a product, whilst following safety procedures
- to explore attitudes towards the made world and how we live and work within it
- to develop an understanding of the technological processes, products and their manufacture and contribution to our society and the wider world

Through D&T at Hunslet Moor Primary school, we aim to pride children with the necessary skills to; develop creative, technical and practical expertise, to use skills in order to design and make high-quality products for a wide range of users, evaluate and test their ideas and products (and the work of others) and understand and apply the principles of nutrition and learn how to safely prepare and cook a range of healthy meals and snacks. This an extremely important factor to bring into our teaching due to some of the family's home life, deprivation and with it not being an affluent area.

Implementation of Design and Technology

At Hunslet Moor Primary, we believe that a broad and balanced D&T education is the entitlement of all children, regardless of ethnic origin, gender, class, aptitude or disability. Many of our families have a fixated menu and with our teaching our children can go home with a broader knowledge of diet and recipes.

During the academic year, KS1 and KS2 will study three different D&T topics. Where possible, D&T units make relevant and meaningful links with other areas of our non-core curriculum, such as History, Geography and Science. Class teachers and the subject leader for D&T will ensure that the subject is adequately represented in terms of the overall timetable in each year group through the monitoring of medium term planning. Teachers will also adapt D&T planning when necessary to ensure the needs of the learners in their class are being met, ensuring every child has access to the curriculum. This includes all SEND children.

In the Early Years, daily opportunities are provided for children to develop essential skills in Expressive Arts and Design - Creating with Materials where children are taught to safely use and explore a variety of materials, tools and techniques, experiment with colour, design, texture, form and function and share their creations, explaining the process they have used. They are also encouraged to make use of props and materials when role playing characters in narratives and stories. Cross-curricular opportunities allow children's early D&T skills to also be assessed in areas such as 'Physical Development', 'Understanding the World', and 'Mathematics.'

At Hunslet Moor Primary School, we are working hard to promote our pupils' reading and writing and ensure that they all achieve to the very best of their ability. Pupils are encouraged to read widely and often. Vocabulary is fundamental to all subjects. All children are expected to follow our school's non-negotiables for presentation. This includes a focus on learning to write following our handwriting scheme.

Work will be evidenced using class floor books which will include photographs and individual quotes. Planning is supported by Projects on a page, from The Design and Technology Association of which we are members.

Impact of Design and Technology

Through the DT curriculum at Hunslet Moor Primary, children will feel engaged and inspired to use their creativity and imagination. Each year they will develop a practical purpose to their skills. We aim to support the children in developing their confidence and be able to make links between other areas of the curriculum such as language development, mathematics, science and computing, as well as connecting with the wider world.

The vast majority of children will be prepared for future learning in D&T and demonstrate the results of the taught techniques. Through being able to critique, evaluate and test their ideas, this is seen in the work in floor books and demonstrated in how children discuss projects with each other and adults. Further to this, sharing their new learning and skill with home; beginning to show an awareness of the principles of nutrition and how to cook. They readily discuss healthy choices and enjoy preparing and eating food they have made.

Our summative assessment tool is Sonar, where we assess our children against the national curriculum objectives. Using the evidence from observation and using the class floor books

EYFS - ELG

EYFS children at Hunslet Moor Primary School will be encouraged to reach their ELG by:

- Safely using and exploring a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.
- Sharing their creations, explaining the process they have used.

- Making use of props and materials when role playing characters in narratives and stories.

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- Explore different materials freely, in order to develop their ideas about how to use them and what to make.
- Develop their own ideas and then decide which materials to use to express them.
- Join different materials and explore different textures.

Reception

- Explore, use and refine a variety of artistic effects to express their ideas and feelings.
- Return to build on their previous learning, refining ideas and developing their ability to represent them.
- Create collaboratively, sharing ideas, resources and skills.

Key Stage One

When designing and making children should be taught to:

Design

- Design purposeful, functional, appealing products for themselves and other users based on design criteria
- Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology

Make

- Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]
- Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics

Evaluate

- Explore and evaluate a range of existing products
- Evaluate their ideas and products against design criteria

Technical knowledge

- Build structures, exploring how they can be made stronger, stiffer and more stable
- Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.

Key Stage Two

When designing and making children should be taught to:

Design

- Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups

- Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design

Make

- Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately
- Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities

Evaluate

- Investigate and analyse a range of existing products
- Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work
- Understand how key events and individuals in design and technology have helped shape the world

Technical knowledge

- Apply their understanding of how to strengthen, stiffen and reinforce more complex structures understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]
- Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]
- Apply their understanding of computing to program, monitor and control their products.

Cooking and nutrition

As part of their work with food, pupils should be taught how to cook and apply the principles of nutrition and healthy eating. Instilling a love of cooking in pupils will also open a door to one of the great expressions of human creativity. Learning how to cook is a crucial life skill that enables pupils to feed themselves and others affordably and well, now and in later life.

Pupils should be taught to:

Key stage 1

- Use the basic principles of a healthy and varied diet to prepare dishes
- Understand where food comes from.

Key stage 2

- Understand and apply the principles of a healthy and varied diet
- Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques

- Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed

Design and Technology Subject Leader

The subject leader is responsible for:

- Supporting colleagues in planning and implementation of the work and in assessment.
- Ensuring the DT curriculum is knowledge based and children are taught the specific skills required in order to achieve their goal.
- Monitoring progress in DT.
- Reviewing the sketch books termly.
- Keeping up to date with developments in DT education.
- Reviewing DT policy yearly.