



Hawkshead Esthwaite Primary School

Design and Technology Policy

Rationale

At Hawkshead Esthwaite Primary School, we believe that design technology prepares children to take part in the development of tomorrow's rapidly changing world. Creative thinking encourages children to make positive changes to their quality of life. The subject encourages children to become autonomous and creative problem-solvers, both as individuals and as part of a team. It enables them to identify needs and opportunities and to respond by developing ideas and making products and systems.

Aims

- To develop imaginative thinking in children and to enable them to talk about what they like and dislike when designing and making.*
- To enable children to talk about how things work, and to draw and model their ideas.*
- To encourage children to select appropriate tools and techniques for making a product, whilst following safe procedures.*
- To explore attitudes towards the made world and how we live and work within it.*
- To develop an understanding of technological processes, products, and their manufacture, and their contribution to our society.*
- To foster enjoyment, satisfaction and purpose in designing and making.*

Implementation of Policy

At Hawkshead Esthwaite Primary School through the study of design and technology children combine practical skills with an understanding of aesthetic, social and environmental issues. This allows them to reflect on and evaluate present and past design and technology, its uses and its impacts.

Design and technology helps all children to become discriminating and informed consumers and potential innovators.



Hawkshead Esthwaite Primary School

- We have used the best research to create a well sequenced and progressive curriculum map, containing the key concepts children need to be procedurally fluent in, to work and think like professional design technologists.

The key concepts in D.T we plan a progression for on our curriculum map are as follows:

- *Developing, planning and communicating ideas*
- *Working with tools, equipment, materials and components to make quality products*
- *Evaluating processes and products*
- *Mechanisms*
- *Construction and use of materials*
- *Textiles*

At Hawkshead Esthwaite Primary School children learn to produce practical solutions to real problems. Children develop technical understanding and making skills, learn about design methods and investigate their environment and the materials around them.

At Hawkshead Esthwaite Primary School we use a variety of teaching and learning styles in design technology lessons. The principal aim is to develop children's knowledge, skills and understanding in design and technology, and teachers encourage children to use their knowledge and understanding when developing ideas, planning and making products and evaluating them.

At Hawkshead Esthwaite Primary School we use a balance of whole class teaching and individual or group activities, giving children opportunity to both work on their own and to collaborate with others.



Hawkshead Esthwaite Primary School

At Hawkshead Esthwaite Primary School children are encouraged to listen to the ideas of others, and treat them with respect, to critically evaluate existing products, both their own work and those of others. They have the opportunity to use a wide range of materials and resources, including ICT.

Knowledge and Understanding

At Hawkshead Esthwaite Primary School all children are encouraged to:

- *Generate ideas through discussion and experimentation.*
- *Extend knowledge and understanding of a wide range of materials, including construction kits, textiles, food, wood, plastic, metals and reclaimed/junk materials.*
- *Work within groups and as individuals.*
- *Make use of drawings and models to communicate their ideas.*
- *Evaluate their work and identify strengths and weaknesses in a positive way.*
- *Experiment with simple components, mechanisms and structures.*
- *Learn about health and safety aspects when working with a variety of materials and tools.*
- *Consider risk to themselves and to others and build up a knowledge and understanding of the dangers inherent in certain products and tools.*
- *Experience design technology through off-site visits, where practicable, in order to see technology used in a real environment.*

Planning

At Hawkshead Esthwaite Primary School planning is the responsibility of the subject leader and the teacher that is teaching the subject. The curriculum map identifies the progression



Hawkshead Esthwaite Primary School

and sequence of key concepts in design technology. It is the class teacher's responsibility to use the curriculum map to plan and carry out well sequenced lessons.

In planning, the delivery of the curriculum will be differentiated to allow for children of all abilities.

The pedagogy we use is three distinct methods:

- 1. Investigate, disassemble and evaluation activities.**
- 2. Focused practical tasks**
- 3. Design and make projects.**

EYFS and Key Stage 1

At Hawkshead Esthwaite Primary School during key stage 1 the children learn how to think imaginatively and talk about what they like and dislike when designing and making. They build on their early childhood experiences of investigating objects around them. They explore how familiar things work and talk about, draw and model their ideas. They learn how to design and make safely and could start to use ICT as part of their designing and making.

Key Stage 2

At Hawkshead Esthwaite Primary School during key stage 2 children work on their own and as part of a team on a range of designing and making activities. They think about what products are used for and the needs of the people who use them. They plan what has to be done and identify what works well and what could be improved in their own and other people's designs. They draw on knowledge and understanding from other areas of the curriculum and use computers in a range of ways.

In EYFS, Key Stage 1 and Key Stage 2 children will:



Hawkshead Esthwaite Primary School

- *Develop knowledge, skills and understanding.*
- *Use developing, planning and communicating ideas.*
- *Gain a knowledge and understanding of materials and components.*
- *Carry out focused practical tasks that develop a range of techniques, skills, processes and knowledge*
- *Design and make assignments using a range of materials, including electrical and mechanical components, food, mouldable materials, stiff and flexible sheet materials, and textiles.*
- *Investigate and evaluate a range of familiar products, thinking about how they work, how they are used and the views of the people who use them.*
- *Allow constructive conversation and language interaction.*

Knowledge and Skills

At Hawkshead Esthwaite Primary School children learn how to draw on a developing repertoire of skills and knowledge, which will include:

- *Learning how to work independently and collaboratively.*
- *Developing, planning and communicating ideas.*
- *Working with tools, equipment, materials and components to make quality products.*
- *Evaluating processes and products.*
- *Developing knowledge and understanding of materials and components.*
- *Learning the importance of health and safety.*

The Design and Technology Leader will:



Hawkshead Esthwaite Primary School

- *Monitor design and technology within the school e.g. through curriculum walks.*
- *Keep up to date with new developments and inform staff.*
- *Encourage other members of staff in their design and technology teaching and give support where appropriate.*
- *Ensure that design and technology resources are available and appropriate to the needs of the staff.*
- *Ensure that design and technology maintains a strong profile within the school, through displays etc (e.g. by carrying out a curriculum walk every term and reporting findings to teachers and by updating the school design and technology display every term, reflecting progression throughout the school).*
- *Keep a portfolio for design and technology that will include photographs of children at work, curriculum walk reports, examples of planning and examples of children's work.*
- *Audit resources regularly and take overall responsibility for equipment and resources.*

Health and Safety

At Hawkshead Esthwaite Primary School children will be given suitable instruction on the operation of all equipment before being allowed to work with it.

Children should be strictly supervised in their use of equipment at all times.

Children should be taught to respect the equipment they are using and to keep it stored safely while not in use.

Children should be taught to recognise and consider hazards and risks and to take action to control these risks, having followed simple instructions.



Hawkshead Esthwaite Primary School

Food Hygiene

Children and staff will take care to undertake appropriate hand washing and other hygiene related activities prior to preparing food.

Children and staff working with food must wear aprons designated for cooking.

All jewellery should be removed, and hair tied back.

Glue Guns

At Hawkshead Esthwaite Primary School low temperature glue guns should only be used by an adult in key stage one and EYFS, unless there is one-to-one supervision for a child.

Key stage two children should use low temperature glue guns under supervision in a designated work area, wearing safety goggles.

Craft Knives

At Hawkshead Esthwaite Primary School craft knives, quick cutters and rotary cutters should only be used by an adult/teacher in key stage one and the EYFS.

Key stage two children may use cutting equipment under supervision, using a cutting mat and wearing safety goggles.

Sawing



Hawkshead Esthwaite Primary School

At Hawkshead Esthwaite Primary School bench hooks and clamps must be used when sawing any material. Safety goggles must be worn, and any loose items of clothing/hair must be tucked in.

Equal Opportunities

At Hawkshead Esthwaite Primary School all children, regardless of gender, race or learning needs will be given equal access to the design and technology curriculum.

The design and technology curriculum will be differentiated according to the needs of the children. If a child needs specialist equipment to access the curriculum, the school will source the appropriate equipment

If a child has an EHCP plan and is not able to access the curriculum at the same level as his/her peers, then provision will be made for the child to access the curriculum at their own level. If a child is identified as being more able, in this curriculum area, they will be challenged in their learning.

Monitoring and review:

At Hawkshead Esthwaite Primary School the monitoring of the standards of children's work and of the quality of teaching in design and technology is the responsibility of the design and technology subject leader. The design and technology subject leader provides the SLT with information through reviewing planning and topic coverage termly and reviewing the



Hawkshead Esthwaite Primary School

progress towards the targets in the school improvement plan twice a year. Samples of work are photographed or collected to build a portfolio of work in design and technology.

Disability Equality Impact Assessment

This policy has been written with reference to and in consideration of the school's Disability Equality Scheme. Assessment will include consideration of issues identified by the involvement of disabled children, staff and parents and any information the school holds on disabled children, staff and parents.

Any questions or concerns regarding this policy should be made to Miss R.Yeung (subject lead and/or Mrs C.Sharp (Head Teacher)

Written by R.Yeung

Reviewed: May 2023

Next review: September 2024