Design

&

Technology Policy

Leasingham St. Andrew's Church of England Primary School

'Everything you do, do in love'

Reviewed and updated: February 2025

Next review: February 2028

1). Rationale and Principles

The school aims to provide opportunities for the children to develop an interest and study the 'made' world through Design and Technology skills and understand how products are designed and made to meet human needs and wants. This policy aims to outline the purpose, nature and management of the Design & Technology taught in our school. Design and Technology is a non-core subject in the National Curriculum. This policy outlines the purpose, nature and management of Design Technology taught in our school.

Through the teaching of Design & Technology, we aim to reflect and live-out the vision of Leasingham St. Andrew's Church of England Primary School.

Everything you do, do in love'

At St Andrew's, we seek to be a safe and happy environment, inspiring our school family to be positive participants in the world community. A place where we are all encouraged, through love and service, to be the very best.

John 13:34 'Love one another, as I have loved you'

We aim to demonstrate the following 'golden threads' through the subject of Design & Technology.

- High aspirations permeate across the school.
- The school offers a host of cultural experiences and enrichment opportunities.
- Our children develop a love of life-long reading.
- British Values are an intrinsic part of the school.

2). Intent

At St – Andrew's Church of England Primary School the teaching of Design and Technology demands that pupils are confident and resilient in order to achieve success. Pupils are encouraged to become independent, creative problem-solvers and thinkers as individuals and as part of a team. Our curriculum is planned so that pupils follow a process where evaluation and communication are key. Design and Technology projects allow pupils to apply skills from across the curriculum; Mathematics, Science, Computing and Art – to design, make and evaluate products that solve real and relevant problems.

The study of Design and Technology plays a key role in these ambitions. At St – Andrew's Church of England Primary School, we work hard to ensure Design and Technology delivers the National Curriculum in full and has depth and breadth. Leading on from our school vision: ***'..being positive participants in the world community'***, we want Design and Technology to become beneficial and significant in shaping the children's lives and the world

they inherit. We believe that our children should have big ambitions where there are no glass ceilings, and we want the Design and Technology curriculum to support this. Lincolnshire has a strong link to industrial, electrical, aeronautical, and farming engineering and in a world where engineering, technology and design are critical; we want to ensure the children know about the things that are possible in their future and that they can be part of it. Engineering is about making the world a better place; this is an extremely important message that we want our children to understand. As teachers, it is our job to inspire the future and at St – Andrews Church of England Primary School, we do this through having an engaging and inspiring Design and Technology curriculum. Our Design and Technology teaching uses a problem solving and communication process to support learning and developing new skill. We want to create critical thinkers and shape learning which allows pupils to learn for themselves.

Design & Technology teaching at Leasingham St Andrew's Church of England Primary School focuses on enabling children to think like designers. Our curriculum is planned to ensure Design & technology knowledge is taught alongside the development of subject specific skills including links to Maths and Science.

The study of Design & Technology plays a key role in our 'golden threads' as it offers pupils the ability to learn about different cultures and societies from the past and how we have learnt and benefitted from them, There are links to British values and how the growth of democracy and respect for others have developed through the history of not only the United Kingdom but those countries and citizens of the Commonwealth and beyond who have had such a positive impact on our lives.

Our Design & Technology teaching uses an enquiry process by asking and answering questions and using key vocabulary which shapes the learning and allows the pupils to learn for themselves.

3). Implementation

The Design & Technology curriculum uses a spiral approach to embed understanding of the key concepts for each Key Stage. Children will use their vocabulary and knowledge to make connections and to think and work like engineers; through speaking and listening and evaluating sources, the children will learn critical awareness while searching for answers and drawing conclusions. Learning through narratives, questioning and by continuously building upon and developing technology skills, children will be able to express their interpretation of the key concepts. Following the progression grids allows teachers to plan and teach lessons that focus on the substantive and disciplinary knowledge children need in order to make

connections with previous learning as well as develop new understandings. Authentic primary and secondary sources are used in lessons where possible, to allow children to explore artefacts / examples of products, watch media and read high-quality texts in their journey to become engineers. Enriching the curriculum with trips, and developing cultural capital inspire discussion, questioning and contextual vocabulary through bringing Design & Technology to life.

Children will be developing the following elements:

- Designing and making skills
- Knowledge and understanding
- Materials and components
- Food preparation and healthy eating
- Products and applications
- Quality
- Health and Safety
- Vocabulary

Children will be taught as a class or in groups, as appropriate. All children will be taught the safe and appropriate use of equipment and materials in accordance with Health and Safety requirements. Further details of this can be found in the Health and Safety policy.

4). Impact

The effect of Design Technology at St – Andrews Church of England Primary School can be monitored through both formative and summative assessment opportunities. Each lesson enables teachers to assess pupils against the learning objectives. Having followed our Design and Technology programme of lessons over their time at St – Andrew's, pupils should leave our school equipped with a range of skills to enable them to succeed in their secondary education and be innovative, resourceful and positive members of the community – in line with our school vision. The expected impact of Design & Technology planning at St Andrew's Church of England Primary School is that children will:

- Appreciate the functional and aesthetic properties of a range of materials and resources.
- Be aware of how to use and combine tools to carry out different processes for shaping, decorating, and manufacturing products.
- Build and apply a repertoire of skills, knowledge and understanding to produce high quality, innovative outcomes, including models, prototypes, and products to fulfil the needs of users, clients, and scenarios.
- Understand and apply the principles of healthy eating, diets, and recipes, including key processes, food groups and cooking equipment.

- Have an appreciation for key individuals, inventions, and events in history and of today that impact our world.
- Recognise where our decisions can impact the wider world in terms of community, social and environmental issues.
- Self-evaluate and reflect on learning at different stages and identify areas to improve.
- Meet the end of key stage expectations outlined in the National curriculum for Design and technology.

5). Role of the Subject Leader

At Leasingham St Andrew's Church of England Primary School, the role of the Design & Technology subject leader is to ensure that children make sufficient progress through each year group, acquiring and applying key knowledge. This will be achieved by:

- Securing high quality teaching.
- Ensuring that planning meets the requirements of the school's agreed curriculum.
- Monitoring the effective use of resources.
- Having oversight of curriculum coverage and ensuring that the curriculum meets national requirements.
- Developing assessment and record keeping, ensuring progression and continuity.
- Ensuring that colleagues are aware of expectations and supporting them in teaching the subject through the progressive and sequenced curriculum map.
- Action planning for future development.
- Ensuring that appropriate resources are in place to deliver a rich and challenging curriculum.
- Monitoring the effectiveness of teaching and the impact on learning and standards.
- Evaluating and summarising all aspects of the subject to define next steps for improvement.
- Keeping abreast of development in subject education and media usage.

6). Assessment

At Leasingham St. Andrew's Church of England Primary School, we assess the children's work in Design & Technology by making informal judgements as we observe the children during lessons. At the end of each long term (Autumn, Spring and Summer), teachers will make a judgment as to whether each child is on track for end of year expectations, as outlined in the Design & Technology curriculum map. This is recorded on the school's online assessment system, Insight. Judgements are as follows:

- Below
- Just Below
- On Track
- Greater Depth

Class teachers keep the children's Design & Technology work in topic books.

7). Design & Technology and ICT

At Leasingham St. Andrew's Church of England Primary School, ICT plays a part in the teaching and learning of Design & Technology. Links to ICT are made in planning and every opportunity to explore links with ICT are used. Children will be given the opportunity to apply and develop their Design and Technology skills through appropriate ICT tools, to include:

- Cameras
- Digital images on appropriate computer software and Internet sites
- Computer design packages

8). Early Years Foundation Stage (EYFS)

In Reception, Design & Technology is taught as an integral part of topic work covered during the year. In the EYFS, Design & Technology is about the children having the opportunities to find out and learn about the world they live in and discover the meaning of new and old in relation to their own lives. The Design & Technology side of the children's work is related to the Knowledge and Understanding of the World, Expressive Arts & Design ELG: Creating with Materials objectives set out in the EYFS Curriculum.

9). Differentiation including catering for children with Special Educational Needs

At Leasingham St. Andrew's Church of England Primary School, we aim to encourage all children to reach their full potential in Design & technology through the provision of varied opportunities and responding and adapting our teaching to the children's individual needs. We recognise that our curriculum planning must allow children to gain a progressively deeper understanding and competency as they move through our school. Children with specific needs, such as those in receipt of an Educational Health Care Plan (EHCP) will work on outcomes suited to their own abilities.

10). Equal Opportunities

At Leasingham St. Andrew's Church of England Primary School, all children will be given equal access to Design & Technology irrespective of race, gender and creed, level of ability or nationality. Mutual respect and tolerance for all cultures will be promoted through the study of history.

11). Resources

At Leasingham St. Andrew's Church of England Primary School, resource boxes containing a range of specialist practical equipment, materials and resources to aid the teaching of that subject are stored in a central location and it is the responsibility of each teacher to return equipment after use. Resources are audited regularly and reviewed through discussion with teachers.

12). Monitoring and Evaluation

To monitor and evaluate Design & Technology, the subject leader:

- *Supports teachers via explaining the progressive curriculum map, discussing the key concepts in Design & Technology, co-planning, team teaching, observing and giving feedback.*
- *Monitors teachers' medium-term planning against the progression contained in the curriculum map.*
- *Reviews resource provision.*
- *Works co-operatively with the SENDCo*
- *Reviews the progress with implementing this policy in the school with the Headteacher and/or subject governor.*

The school's governor monitoring programme includes monitoring of individual subjects by governors, to support and challenge the subject leaders.

13). Disability and Equality Statement

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 the Headteacher.