Singleton Church of England Primary School

Design Technology Overview

"Passion for LearningPassion for life"

Governors and school leaders facilitate a reflective and ambitious culture. Constructive challenge and creative ideas are encouraged,

valued and used to inform whole school planning. The views of learners, parents, staff, governors, therapists, social workers and other

stakeholders inform the evaluation of the quality of our work and provision, which in turn is used to identify areas for improvement.



Curriculum Intent

The aim of our curriculum is linked to our vision

School Vision

To provide the children with a wide variety of engaging and challenging opportunities enabling them to live life to the full. Developing a growth mind-set, believing that with God everything is possible. To show, love, trust, wisdom and respect, becoming exemplary role models in our community and the wider world.

The rationale behind this is...

At Singleton Church of England School, we believe that every child must be provided with opportunities to develop socially, emotionally, academically and physically to achieve the highest possible standards. The sky is the limit for our children. We seek to inspire each other and learn to value greatness, ambition and achievement of all kinds. To belong to Singleton School is an honour. Each of us aspires to reach a potential, which is not limited, but is given wings through the creative curriculum and our Christian Values, which will truly enable us to embrace living our lives without limits. As such, there is high academic/ vocational / technical ambition for all pupils, and as a school, we do not offer disadvantaged pupils or pupils with SEND a reduced curriculum.

At Singleton C of E Primary School, we see every child as a unique individual. We embrace every child's learning journey and encourage them to be the best they can be.

`*Technology is just a tool. In terms of getting the kids working together and motivating them, the teacher is the most important*'

Bill Gates

We believe that all children who become pupils at our school deserve the best and our aim is to help them succeed by reaching their full potential in every area of school life – academic, social, personal, physical and spiritual. We do this by ensuring that each child has a clearly defined personal creative curriculum where they understand their educational journey – where it is beginning, where it will take them and how they will get there! Our mission statement is at the very heart of this.

'Passion for learning, Passion for life'

Curriculum Intent- Design Technology

At Singleton School, we believe Design and Technology is a vital part of the education for all children and is a gateway to becoming designers and makers in the world and of the future.

At Singleton Primary School, we aim to inspire and follow the National Curriculum's purpose of study and to be rigorous and practical in approach to teaching and learning about Design and Technology. Our children will design and make products that solve real and relevant problems within a variety of contexts, using imagination and creativity, considering their own and others' needs, wants and values. They will acquire a broad range of subject knowledge and draw on disciplines such as Mathematics, Science, Computing and Art. Children will learn how to take risks; becoming resourceful, innovative, enterprising and capable designers and makers. 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.

At our school we intend that children should master Design and Technology to such an extent that they can go on to have careers within Design and Technology and make use of design and technology effectively in their everyday lives. Our children will be taught Design and Technology in a way that ensures progression of skills, and follows a sequence to build on previous learning. Our children will gain knowledge, experience and skills of a wide range of formal elements of design and concepts of technology in a way that will enhance their learning opportunities, enabling them to use design and technology across a range of subjects to be creative and solve problems, ensuring they make progress

Our curriculum is designed to ensure that all pupils:

- Have significant levels of originality and are willing to take creative risks, to produce innovative ideas and prototypes;
- Use time efficiently to work constructively and constructively with others;
- Carry out thorough research and ask questions, to develop a knowledge of users' needs;
- Develop the ability to appropriately select and use materials, tools and equipment safely and responsibly, as designers and makers;
- Manage risk, hygiene and safety during product manufacturing;
- Have a passion for Design and Technology.

The school's aim is to provide a Design and Technology Curriculum, which will enable each child to reach their full potential in learning in design and technology. Through investigating and making, through research and the development of skills and through their evaluation of their own design and that made by others. All of the children in Singleton School, including those with special educational needs and or disabilities, are given access to a broad, rich and deep curriculum. Singleton school recognises the important of substance of the education. We have used best 'endeavours approach' to organising the curriculum for mixed year classes. In doing this we ensure topics are fully in line with the National Curriculum and that children will build and revisit, through a spiral approach, key skills within Design and Technology. This is planned for and addressed on the 2-year cycle.

Implementation – how is the curriculum implemented?

EYFS

The statutory Early Years Foundation Stage, (EYFS), framework for England clearly identifies the role of design and technology in young children's learning and the subject is specifically named in the area of learning 'Expressive arts and design'.

The early learning goals for expressive arts and design indicate what children should know, understand and be able to do by the end of the reception year. A significant proportion of this learning is delivered through high quality D&T experiences and activities, enabling children to:

- safely use and explore a variety of materials, tools and techniques
- experiment with colour, design, texture, form and function
- use what they have learnt about media and materials in original ways, thinking about uses and purposes.

D&T also makes an important contribution to children's learning across the remaining six areas of the EYFS framework:

- Understanding the World
- Physical Development
- Literacy
- Mathematics
- Personal, Social and Emotional Development
- Communication and Language.

Many D&T experiences in the EYFS take place during child-initiated learning. At this early stage talking with the children about their activities is a valuable way to take the children's thinking and learning further

The Design and technology National curriculum outline the three main stages of the design process: design, make and evaluate. Each stage of the design process is underpinned by technical knowledge which encompasses the contextual, historical, and technical

understanding required for each strand. Cooking and nutrition* has a separate section, with a focus on specific principles, skills and techniques in food, including where food comes from, diet and seasonality.

KS1 / 2

The National curriculum organises the Design and technology attainment targets under five subheadings or strands:

- Design
- Make
- Evaluate
- Technical knowledge
- Cooking and nutrition

Cooking and nutrition is given a particular focus in the National curriculum and we have made these one of our six key areas that pupils revisit throughout their time at Singleton school:

- 1. Cooking and nutrition
- 2. Mechanisms/ Mechanical systems
- 3. Structures
- 4. Textiles
- 5. Electrical systems (KS2 only)
- 6. Digital world (KS2 only)

These six areas of focus are enriched further through the use of Lego Tecnics within Fantastic Friday which combines computing and design technology.

We follow a broad and balanced Design and Technology curriculum that builds on previous learning and provides both support and challenge for learners. We follow a Design and Technology scheme – KAPOW - that ensures progression of Knowledge and skills and covers all aspects of the Design and Technology curriculum.

As a small school with mixed aged classes we have a 2-year planning cycle. All classes will have a scheduled Design and Technology lessons over the course of a term according to the cycle. Design and Technology is also taught alongside other curriculum subjects and STEM week. Children's work and pictures of their work will be stored on online floor books for reference and assessment.

Through Kapow Primary's Design and technology scheme, pupils respond to design briefs and scenarios that require consideration of the needs of others, developing their skills in the six key areas.

Each of our key areas follows the design process (design, make and evaluate) and has a particular theme and focus from the technical knowledge or cooking and nutrition section of the curriculum. The Kapow Primary scheme is a spiral curriculum, with key areas revisited again, and again with increasing complexity, allowing pupils to revisit and build on their previous learning.

Lessons incorporate a range of teaching strategies from independent tasks, paired and group work including practical hands-on, computer-based and inventive tasks. This variety means that lessons are engaging and appeal to those with a variety of learning styles. Differentiated guidance is available for every lesson to ensure that lessons can be accessed by all pupils and opportunities to stretch pupils' learning are available when required. Knowledge organizers for each unit support pupils in building a foundation of factual knowledge by encouraging recall of key facts and vocabulary.

We believe that strong subject knowledge is vital for staff to be able to deliver a highly effective and robust Design and technology curriculum. Each unit of lessons includes multiple teacher videos to develop subject knowledge and support ongoing CPD. Kapow Primary has been created with the understanding that many teachers do not feel confident delivering the full Design and technology curriculum and every effort has been made to ensure that they feel supported to deliver lessons of a high standard that ensure pupil progression.

At Singleton School we also enhance and enrich our DT curriculum through Fantastic Friday where children are given longer sessions to complete high quality work and also Lego Technic is used as an additional resource and enrichment. We work hard to ensure that Design and Technology is embedded in our whole school curriculum and that opportunities for enhancing learning by using design and technology are always taken. Further enrichment includes an annual STEM week and links with BAE and Blackpool and Fylde College which provides annual trips for the KS2 children.

Overview of sequence of topics taught in Design and Technology in Fantastic Friday and STEM Week:

Foundation Stage

We supplement the EYFS curriculum with KAPOW – scheme of work Food KAPOW – Soup Structures KAPOW – Boats

- Textiles
 - KAPOW Bookmarks

Key stage one:

Cycle A

Food

- KAPOW Fruit and Vegetables (Y1)
- Mechanisms -
 - KAPOW Making a moving story book (Y1)
 - KAPOW Wheel and axles (Y1)
- Structures & Textiles
 - KAPOW Constructing a Windmill (Y1)
 - KAPOW Puppets (Y1)

Cycle B

Food

- KAPOW A Balanced Diet (Y2)
- Mechanisms & Structures
 - KAPOW Making a Moving Monster (Y2)
 - KAPOW Fairground Wheel (Y2)
- DT Structures & Textiles
 - KAPOW Baby Bear's Chair (Y2)
 - KAPOW Pouches (Y2)

Key stage 2: Year 3/4 Cycle A

Food

- KAPOW Eating Seasonally (Y3)
- Structures & Mechanical Systems
 - KAPOW Constructing Castles (Y3)
 - KAPOW Pneumatic Toys (Y3)
- Electrical Systems, Textiles & Digital World
 - KAPOW Electric Poster (Y3)
 - KAPOW Cross-stitch and applique (Y3)
 - KAPOW Electric Charm (Y3)

Cycle B

Food

- KAPOW Adapting a Recipe (Y4)
- Structures, Mechanical Systems & Digital World
 - KAPOW Pavilions
 - KAPOW Making a Slingshot Car
- Electrical Systems, Textiles
 - KAPOW Torches
 - KAPOW Fastenings
 - KAPOW Mindful Moments Timer

Upper Key stage 2: Year 5/6 Cycle A

Food

- KAPOW What Could be Healthier? (Y5)
- Structures & Mechanical Systems
 - KAPOW Bridges (UKS2)
 - KAPOW Pop-Up Book (Y5)
- Electrical Systems, Textiles & Digital World
 - KAPOW Doodlers
 - KAPOW Stuffed Toys
 - KAPOW Monitoring Devices

Cycle B

DT – Food

- KAPOW Come Dine with Me
- Structures & Mechanical Systems
 - KAPOW Navigating the World (Y6) remaining sessions from last half term
 - KAPOW Playgrounds
 - KAPOW Automata Toys

Electrical Systems, Textiles & Digital World

- KAPOW Steady Hand Game
- KAPOW Waistcoats (Y6)

Progression in Skills and Knowledge

- In order to support the teaching staff with connecting new knowledge with existing knowledge (Which is more complicated with mixed aged classes and a 2-year cycle) We have produced 'Progression Grids' for the staff.
- These outline: -
 - Previous and next unit of work
 - Key Vocabulary
 - Substantive Knowledge
 - o Making Connections with prior learning
 - Key Skills
 - Key Assessment Opportunities
- This is particularly important with the mixed age classes, as it provides a quick reference point for staff and leaders and identifies previous topics / context and learning.
- The 'Progression Grids' also help with SEN and inclusion as it supports with differentiation for children who are working below or above age-related expectations.
- These also support the notion that the work given over time across the school in DT, match the aims of the NC. This is planned and sequences to build on prior knowledge and skills and provide a pathway for future learning in DT.

Progression of Skills and Knowledge DT - Y3									
	Year 3 –Cooking & Nutrition Eating Seasonally	Year 3 – Mechanisms/Mechanical Systems Pneumatic Toys	Year 3 – Structures Constructing a castle	Year 3-Textiles Cross stitch & applique					
Previous unit and EYFS – Soup next unit Y1 –Fruit & Vegetables Y2 - Abalanced diet Y4 – Adapting a recipe		NO EYFS Y1-Making a moving story book Y1- Wheels and axles Y2- Fairground Wheel Y2- Making a moving monster Y4- Making a sling shot	EYFS-Boats Y1 – Constructing a windmill Y2- Baby bears chair Y4- Fastenings	EYFS – Bookmarks Year 1. Puppets Y2 – Pouches Yr4 – Fastenings					
KEY VOCABULARY	Climate, Dry climate, Exported, Imported, Mediterranean climate, Nationality, Nutrients, Polar climate, Recipe, Seasonal food, Seasons, Temperate climate, Tropical climate	Exploded-diagram, Function, Input, Lever, Linkage, Mechanism Motion, Net, Output, Pivot, Pneumatic system, Thumbnail sketch	Aesthetic Assemble Book deeve Design ortheria Evaluation Fabric Fastening Mock-up Net Running-stitch Stencil Target audience Target customer Template	Accurate, Applique, Cross-stitch, Cushion, Decorate, Detai Fabric, Patch, Running-stitch, Seam, Stencil, Stuffing, Target audience, Target customer, Template, Embellish, Pinking					
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Key Assessment Opportunity	Key Assessment Opportunity-lesson 4 Lesson 4 - application of dolls and knowledge - swating a recipe	Key Assessment Opportunity Application - Designing and Making a presentatic toy The assessment comes in week 3/ 4 - construction and becting and evaluation	Key Assessment Opportunity Leases 4 - application of all Land Innoductys - Designing and making a loost cover instative of Internange. Week 4 - assembling the Book Steven	Key Assessment Opportunity Lesson 4 – application of drifts and transledge – design and make and use a collar using cross stich and applique

Please click here for the Skills and Knowledge progression grids













Whole school Year 1 - knowledge Year 2 - knowledge Year 3 - knowledge Year 4 - knowledge Year 5 - knowledge Knowledge overviews NEW.pdf overviews NEW.pdf overviews NEW.pdf overviews NEW.pdf overviews NEW.pdf



Planning

How does Kapow Primary's scheme of work align with the National Curriculum?

Our scheme of work fulfils the statutory requirements outlined in the **national curriculum** (2014). The national curriculum Programme of study for Design and technology aims to ensure that all pupils: We have identified four key strands which run throughout our scheme of work:



Digital world

systems

How does Kapow Primary help our school to meet statutory guidance for D&T?

Each of our key areas links to the technical knowledge section of the Design and technology National Curriculum or reinforces principles learnt through exploring various methods and techniques. From KS1 to KS2, the technical knowledge descriptors build upon prior learning and/or introduce new learning.

	Structures	Mechanisms		Electrical systems	Digital world	
K51	Build structures such as windmills and chairs, exploring how they can be made stronger, stiffer and more stable. Recognise areas of weakness through trial and error.	Introduce and explore simple mechanisms, such as sliders, wheels and axles in their designs. Recognise where mechanisms such as these exist in toys and other familiar products.	Explore different methods of joining fabrics and experiment to determine the pros and cons of each technique.	KS2 only* Create functional electrical products that use series circuits, incorporating different components such as bulbs, LEDs, switches, buzzers and motors. Consider how the materials used in these products can: • Protect the circuitry. • Reflect light. • Conduct electricity. • Insulate.	KS2 only* Learn how to develop an electronic product with processing capabilities. Apply Computing principles to program functions within a product including to control and monitor it. Understand how the history and evolution of product design lead to the on-going Digital revolution and the impact it is having in the world today.	Learn about the basic rules of a healthy and varied diet to create dishes. Understand where food comes from, for example plants and animals.
K52	Continue to develop KS1 exploration skills, through more complex builds such as pavilion and bridge designs. Understand material selection and learn methods to reinforce structures.	Mechanical systems Extend pupils understanding of individual mechanisms, to form part of a functional system, for example: Automatas, that use a combination of cams, followers, axles/shaft, cranks and toppers.	Understand that fabric can be layered for effect, recognising the appearance and technique for different stitch and fastening types, including their: • Strength. • Appropriate use. • Design.			Understand and apply the principles of a healthy and varied diet to prepare and cook a variety of dishes using a range of cooking techniques and methods. Understand what is meant by seasonal foods. Know where and how ingredients are sourced.

A spiral curriculum

The scheme of work has been designed as a spiral curriculum with the following key principles in mind:

- Cyclical: Pupils return to the key areas again and again during their time in primary school.
- Increasing depth: Each time a key area is revisited it is covered with greater complexity.
- Prior knowledge: Upon returning to each key area, prior knowledge is utilised so pupils can build upon
 previous foundations, rather than starting again.

Educational Visits and Cultural Capital

 In order to develop a broad, rich and deep DT education we believe children learn through experience. It is therefore considered essential to provide the children with hands on experiences, through educational visits. We aim to address this with suggestions on the two-year cycle with Educational visits, trips and real experience. We have links with BEA Systems and Blackpool and Fylde College.

Impact

Our children enjoy and value Design and Technology and know why they are doing things, not just how. Children will understand and appreciate the value of Design and Technology in the context of their personal wellbeing and the creative and cultural industries and their many career opportunities.



Impact within learning in Design and Technology is constantly monitored through both formative and summative assessment opportunities. Each lesson includes guidance to support teachers in assessing pupils against the learning objectives. Furthermore, each unit has a unit quiz and knowledge catcher which can be used at the start and/ or end of the unit. This is further demonstrated through regularly Key Assessment Opportunities. These are used by staff to identify whether children are working towards, working at or working beyond Age related expectations. Teachers are given clear guidance to support with the Assessments for Learning Process.

Assessment

Assessment is on-going and is a vital tool to aid future planning. Children are assessed on their ability to develop ideas, master techniques and personalise inspiration. In KS1 and KS2, teachers will assess the children using the end of key stage expectations in DT (NC and progression in skills grids) and in the Foundation Stage children will be assessed using the Development Matters and Early Learning Goals document.

Teachers assess children's knowledge, understanding and skills in DT through the Key Assessment Opportunities. AfL Feedback given to children by their peers or teachers is in the form of post-it notes over the learning so that their DT is not marked in the process. Children are also encouraged to be critical of their own work, highlighting their own next steps. Teachers assess the Knowledge and skills delivered in the sequence of lessons, (unit)and this is used to track the individuals progress within DT. Assessment takes place within each unit of work, where each child will work towards completing a project and make a final product.

The **Key Assessment Opportunities** involve both looking at pupils' work, over time and at the outcomes identifying their progress against the key skills and knowledge. Progress will be shown through outcomes and through the important record of the process leading to them. This involves

- Observing how they perform in lessons
- Evaluating the outcome at the end of a topic
- Talking to the children about what they know.
- Key Assessment records

Please click here for examples of Key Assessment Opportunities



Assessment Year 1 Assessment Year 2 Assessment Year 4 Assessment Year 5 Constructing a wincmaking a Monster.pAdapting a recipe.p.(Monitoring Devices.

After the assessment grids have been updated, the Curriculum leader analyses the data and provides feedback to the Art leader in order to inform and improve future practice.

The Design and Technology curriculum will contribute to children's personal development in creativity, independence, judgement and self-reflection. This would be seen in them being able to talk confidently about their work, and sharing their work with others.

Evidence

- On line Floor books are also used to support the children's journey in Fantastic Friday and celebrate their work for that unit/topic
- Written or verbal feedback will be given on work.
- Facebook / Purple Mash will be use to document photo and digital media work in DT.

Reporting

- Children's progress and attainment will be reported to parents in their annual report. As a school, we report end of KS1 and end of KS2 attainment on pupil data sheets based upon the end of Key Stage outcomes.
- In EYFS parents are informed where the children's abilities lie in 'Expressive arts and design and Technology'.