

Subject

Design and Technology

Intent/Aims:

The Weston Curriculum for Design and Technology aims to provide practical opportunities for children to develop their design, making and evaluation skills which they can then transfer to other areas of the curriculum. Design and Technology is taught through a topic-based curriculum ensuring cross-curricular links are made and therefore giving children meaning to their learning. Children are encouraged to draw on their knowledge from other subjects such as Maths, Art and Science. Our planning for mixed year classes combines knowledge and skills to help children develop as they journey through the school.

The Weston Curriculum for Design and Technology aims to ensure that all pupils:

- develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world
- build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users
- critique, evaluate and test their ideas and products and the work of others
- understand and apply the principles of nutrition and learn how to cook.

Curriculum Content – School Year 2023-2024 (Year B)

Pupils in EYFS - See EYFS Curriculum page for information about DT taught (for example, as part of the Expressive Arts and Design area of learning).

Pupils in Years 1 and 2 will be taught the following units;

Spring Term	Summer Term
Puppets - Textiles	Wheels and axles - Mechanisms
Pupils in Year 1 will be taught to: • Identify a target group for what they intend to design and make. • Make their design using appropriate techniques • With help measure, mark out, cut and shape a range of materials • • Use tools eg scissors safely • Use simple finishing techniques to improve the appearance of their product • Evaluate their product by asking questions about what they have made and how they have gone about it	Pupils in Year 1 will be taught to: • Suggest ideas and explain what they are going to do. • Make their design using appropriate techniques • Assemble, join and combine materials and components together using a variety of temporary methods e.g. glues or masking tape • Evaluate their product by discussing how well it works in relation to the purpose

Pupils in Year 2 will be taught to: • Identify a purpose for what they intend to design and make. • Cut, shape and join fabric to make a simple garment. Use basic sewing techniques • • Choose and use appropriate finishing technique • Evaluate their products as they are developed, identifying strengths and possible changes they might make	Pupils in Year 2 will be taught to: • Make simple drawings and label parts • Begin to select tools and materials; use vocab' to name and describe them • • Measure, cut and score with some accuracy • Use hand tools safely and appropriately • Assemble, join and combine materials in order to make a product • • Evaluate against their design criteria
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Pupils will also re-visit learning from prior year groups to reinforce connections and to help them to truly master the learning.

Pupils in Years 3 and 4 will be taught the following units:

Spring Term	Summer Term
Cross stitch and applique - Textiles	Build a castle - Structures
Pupils in Year 3 will be taught to: • Plan the order of their work before starting • Select tools and techniques for making their product • Measure, tape or pin, cut and join fabric with some accuracy • Use finishing techniques strengthen and improve the appearance of their product using a range of equipment • Evaluate their product against original design criteria e.g. how well it meets its intended purpose	Pupils in Year 3 will be taught to: • Make drawings with labels when designing • Explore, develop and design proposals for modelling ideas. • Select tools and techniques for making their product • Measure, mark out, cut, score and assemble components with more accuracy • Work safely and accurately with a range of simple tools • Disassemble and evaluate familiar products
Pupils in Year 4 will be taught to: • Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making, if the first attempts fail • Select appropriate tools and techniques for making their product • Sew using a range of different stitches, weave and knit • Measure, tape or pin, cut and join fabric with some accuracy • Evaluate their work both during and at the end of the assignment	Pupils in Year 4 will be taught to: • Make labelled drawings from different views showing specific features • Select appropriate tools and techniques for making their product • Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques • Join and combine materials and components accurately in temporary and permanent ways • Evaluate their products carrying out appropriate tests

Pupils will also re-visit learning from prior year groups to reinforce connections and to help them to truly master the learning.

Pupils in Years 5 and 6 will be taught the following units:

Autumn Term	Summer Term
Pop-up book - Mechanisms	Stuffed toys - Textiles
Pupils in Year 5 will be taught to: • Draw up a specification for their design • Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making if the first attempts fail • Select appropriate materials, tools and techniques • Measure and mark out accurately • Cut and join with accuracy to ensure a good-quality finish to the product • Evaluate a product against the original design specification	Pupils in Year 5 will be taught to: • Generate ideas through brainstorming and identify a purpose for their product • Draw up a specification for their design • Measure and mark out accurately • Use skills in using different tools and equipment safely and accurately • Cut and join with accuracy to ensure a good-quality finish to the product • Evaluate it personally and seek evaluation from others original design specification
Pupils in Year 6 will be taught to: • Communicate their ideas through detailed labelled drawings • Develop a design specification • Plan the order of their work, choosing appropriate materials, tools and techniques Select appropriate tools, materials, components and techniques • Assemble components to make working models • Make modifications as they go along • Record their evaluations using drawings with labels	Pupils in Year 6 will be taught to: • Communicate their ideas through detailed labelled drawings • Plan the order of their work, choosing appropriate materials, tools and techniques • Use tools safely and accurately • Construct products using permanent joining techniques • Pin, sew and stitch materials together to create a product • Achieve a quality product • Evaluate against their original criteria and suggest ways that their product could be improve

Pupils will also re-visit learning from prior year groups to reinforce connections and to help them to truly master the learning.

Curriculum Content – School Year 2024-2025 (Year A)

Pupils in EYFS - See EYFS Curriculum page for information about DT taught (for example, as part of the Expressive Arts and Design area of learning).

Pupils in Years 1 and 2 will be taught the following units;

Spring Term	Summer Term
A balanced diet – Cooking and Nutrition	Baby bear's chair - Structures
Pupils in Year 1 will be taught to: • Draw on their own experience to help generate ideas • Develop their design ideas applying findings from their earlier research • Select and use appropriate fruit and vegetables, processes and tools • Use basic food handling, hygienic practices and personal hygiene • Evaluate their product by asking questions about what they have made and how they have gone about it	Pupils in Year 1 will be taught to: • Develop their design ideas applying findings from their earlier research • Make their design using appropriate techniques • Assemble, join and combine materials and components together using a variety of temporary methods e.g. glues or masking tape • Evaluate their products as they are developed, identifying strengths and possible changes they might make the product better.
Pupils in Year 2 will be taught to: • Generate ideas by drawing on their own and other people's experiences • Identify simple design criteria • Follow safe procedures for food safety and hygiene • Choose and use appropriate finishing technique Evaluate against their design criteria	Pupils in Year 2 will be taught to: • Develop their design ideas through discussion, observation, drawing and modelling • Make simple drawings and label parts • Assemble, join and combine materials in order to make a product • Evaluate their products as they are developed, identifying strengths and possible changes they might make

Pupils will also re-visit learning from prior year groups to reinforce connections and to help them to truly master the learning.

Pupils in Years 3 and 4 will be taught the following units:

Autumn Term	Summer Term
Eating Seasonally – Cooking and Nutrition	Electrical Poster – Electrical Systems
Pupils in Year 3 will be taught to: • Generate ideas for an item, considering its purpose and the user/s	Pupils in Year 3 will be taught to: • Identify a purpose and establish criteria for a successful product.

• Demonstrate hygienic food preparation and storage • Work safely and accurately with a range of simple tools • Evaluate their product against original design criteria e.g. how well it meets its intended purpose	• Think about their ideas as they make progress and be willing change things if this helps them improve their work • Use finishing techniques strengthen and improve the appearance of their product using a range of equipment including ICT • Evaluate their product against original design criteria e.g. how well it meets its intended purpose
Pupils in Year 4 will be taught to: • Generate ideas, considering the purposes for which they are designing • Evaluate products and identify criteria that can be used for their own design • Select appropriate tools and techniques for making their product	Pupils in Year 4 will be taught to: • Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making, if the first attempt does not work • Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques • Use simple graphical communication technique • Evaluate their products carrying out appropriate tests

Pupils will also re-visit learning from prior year groups to reinforce connections and to help them to truly master the learning.

Pupils in Years 5 and 6 will be taught the following units:

Autumn Term	Summer Term
Navigating the world – Digital world	Playground - Structures
Pupils in Year 5 will be taught to: • Draw up a specification for their design. • Use results of investigations, information sources, including ICT when developing design idea • Select appropriate materials, tools and techniques • Evaluate a product against the original design specification	Pupils in Year 5 will be taught to: • Generate ideas through brainstorming and identify a purpose for their product • Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making if the first attempts fail • Select appropriate materials, tools and techniques • Measure and mark out accurately • Cut and join with accuracy to ensure a good-quality finish to the product • Evaluate it personally and seek evaluation from others original design specification

Pupils in Year 6 will be taught to:

- Develop a design specification
 - Make modifications as they go along
 - Achieve a quality product
 - Evaluate against their original criteria and suggest ways that their product could be improve

Pupils in Year 6 will be taught to:

- Communicate their ideas through detailed labelled drawings
- Explore, develop and communicate aspects of their design proposals by modelling their ideas in a variety of ways Select appropriate tools, materials, components and techniques
- Assemble components make working models
- Use tools safely and accurately
- Make modifications as they go along
- Evaluate their products, identifying strengths and areas for development, and carrying out appropriate tests

Pupils will also re-visit learning from prior year groups to reinforce connections and to help them to truly master the learning.