Curriculum Overview 2023-2024
DT
Kettlesing Felliscliffe Primary School
Beckwithshaw Primary School Ripley CE Primary School

Design \& Technology Progression in EYFS The EYFS framework is structured very differently to the national curriculum as it is organised across seven areas of learning rather than subject areas. The aim of this document is to help subject leaders to understand how the skills taught across EYFS feed into national curriculum subjects.

This document demonstrates which statements from the 2020 Development Matters are prerequisite skills for DT within the national curriculum. The table below outlines the most relevant statements taken from the Early Learning Goals in the EYFS statutory framework and the Development Matters age ranges for Three and Four-Year-Olds and Reception to match the programme of study for DT.

The most relevant statements for DT are taken from the following areas of learning:

- Physical Development
- Expressive Arts and Design


## DT Progression

| DT Progression |  |  |  |
| :---: | :---: | :---: | :---: |
| Three and four year olds | Personal, Social and Emotional Development |  | Select and use activities and resources, with help when needed. This helps them to achieve a goal they have chosen or one which is suggested to them. |
|  | Physical Development |  | Use large muscle movements to wave flags and streamers, paint and make marks. Choose the right resources to carry out their own plan. <br> Use one-handed tools and equipment, for example, making snips in paper with scissors. |
|  | Understanding the World |  | Explore how things work. |
|  | Expressive Arts and Design |  | Make imaginative and complex small worlds with blocks and construction kids, such as a city with different buildings and a park. <br> Explore different materials freely, in order to develop their ideas about how to use them and what to make. Develop their own ideas and the decide which materials to use to express them. Create closed shapes with continuous lines, and begin to use these shapes to represent objects. |
| Reception | Physical Development |  | Progress towards a more fluent style of moving, with developing control and grace. Develop their small motor skills so that they can use a range of tools competently, safely and confidently. Use their core muscle strength to achieve good posture when sitting at a table or sitting on the floor. |
|  | Expressive Arts and Design |  | Explore, use and refine a variety of artistic effects to express their ideas and feelings. Return to and build on their previous learning, refining ideas and developing their ability to represent them. Create collaboratively, sharing ideas, resources and skills. |
| ELG | Physical Development | Fine Motor skills | Use a range of small tools, including scissors, paintbrushes and cutlery. |
|  | Expressive Arts and Design | Creating with Materials | Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. <br> Share creations, explaining the process they have used. |


|  | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| KS1 <br> Cycle A |  | $\frac{\text { Cooking and nutrition }}{\text { Making smoothies }}$ |  | Mechanisms <br> Making a moving story book. |  | Structures <br> Constructing a windmill |
| KS1 Cycle B | Textiles Puppets |  | Mechanisms <br> Making a moving story book |  | Mechanisms Wheels and axles |  |
| LKS2 <br> Cycle A |  | Cooking and nutrition <br> A balanced diet |  | Mechanisms <br> Making a moving monster (person/object) |  | Structures Baby Bear's chair |
| LKS2 Cycle B | Textiles Pouches |  | Mechanisms <br> Making a moving monster |  | Mechanisms Fairground wheel |  |
| UKS2 Cycle A |  | Cooking and nutrition What could be healthier? |  | Digital world Monitoring devices |  | Mechanical systems Pop-up book |
| UKS2 <br> Cycle B | Textiles Stuffed toys |  | $\frac{\text { Electrical systems }}{\text { Doodlers }}$ |  | $\frac{\text { Structure }}{\text { Bridges }}$ |  |


|  | Year Group | Designing | Making | Technical Knowledge | Evaluation | Cooking and Nutritior | Vocabulary |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Year 1 | Generate, develop, model and communicate their ideas through talking, drawing, templates, mock- ups and, where appropriate, information and communication technology | Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]. <br> Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics. |  | Evaluate their ideas and products against design criteria. | Understand where food comes from. | Fruit <br> Vegetable <br> Seed <br> Leaf <br> Root <br> Stem <br> Smoothie <br> Healthy <br> Carton <br> Design <br> Flavour <br> Peel <br> Slice |
|  | Year 1 | Design purposeful, functional, appealing products for themselves and other users based on design criteria. <br> Generate, develop, model and communicate their ideas through talking, drawing, templates, mock- ups and, where appropriate, information and communication technology. | Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]. <br> Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics. | Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products. | Explore and evaluate a range of existing products. <br> Evaluate their ideas and products against design criteria. |  | Sliders <br> Mechanism <br> Adapt <br> Design criteria <br> Design <br> Input <br> Model <br> Template <br> Assemble <br> Test |


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| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
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|  | Year 2 | Design purposeful, functional, appealing products for themselves and other users based on design criteria. |  |  | Explore and evaluate a range of existing products. <br> Evaluate their ideas and products against design criteria. | Use basic principles of a healthy and varied diet to prepare dishes. <br> Understand where food comes from. | Balanced diet <br> Balance <br> Carbohydrate <br> Dairy <br> Fruit <br> Ingredients <br> Oils <br> Sugar <br> Protein <br> Vegetable <br> Design criteria |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Year 3 | Design purposeful, functional, appealing products for themselves and other users based on design criteria. <br> 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. |  |  | Investigate and analyse a range of existing products. <br> Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. | Understand and apply principles of a healthy and varied diet. | Balanced diet <br> Balance <br> Carbohydrate <br> Dairy <br> Fruit <br> Ingredients <br> Oils <br> Sugar <br> Protein <br> Vegetable <br> Design criteria <br> Recipe <br> Processed |
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|  | Year 3 | 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. <br> Generate, develop, model and communicate their ideas through discussion, annotated sketches, crosssectional and exploded diagrams, prototypes, pattern pieces and computer- aided design. | Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately.] <br> Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics. | Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]. | Investigate and analyse a range of existing products. <br> Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. <br> Understand how key events and individuals in design and technology have helped shape the world. |  | Axle <br> Design criteria Input Linkage Mechanical Output Pivot Wheel |


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## Design

Design criteria
Wheel
Ferris wheel
Pods
Axle
Axle holder
Frame
Mechanism

## Design

## Design criteria

Wheel
Ferris wheel
Pods
Axle
Axle holder

## Frame

Mechanism

|  | Year 4 | 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. <br> Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer aided design. | Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics. <br> Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately. | Investigate and analyse a range of existing products. <br> Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. | Understand and apply principles of a healthy and varied diet. <br> Prepare and cook variety of predominantly savoury dishes using a range of cooking techniques. <br> Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and | Beef <br> Reared <br> Processed <br> Ethical <br> Diet <br> Ingredients <br> Supermarket <br> Farm <br> Balanced <br> Cross-contamination Diet <br> Processed |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
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|  | Year 6 | 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. <br> Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer- aided design. | Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately. <br> 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. | Investigate and analyse a range of existing products. <br> Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. |  | Beef Reared <br> Processed <br> Ethical <br> Diet <br> Ingredients <br> Supermarket Farm <br> Balanced <br> Equipment <br> Flavours <br> Method <br> Research <br> Recipe <br> Cook book <br> Cross contamination <br> Preparation |

Use research and develop
design criteria to inform the design of innovative, unctional, 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 compute raided design.

Year 5 Use research and develop design criteria to inform the design of innovative, functional, appealing purpose, aimed at particula individuals or groups.

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

Apply their understanding of and control their products.
valuate their ideas and produc against their own design criteria to improve their work.

Understand how key events and individuals in design and echnology have helped shape he world.

Apply their understanding of computing to program, monitor and control their products.

Evaluate their ideas and product 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.

| Year 4 | 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. <br> Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer aided design. | Select from and use a wider range of tools and equipment to perform practical tasks [for example cutting, shaping, joining and finishing], accurately. <br> Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics. | Understand and use mechanical systems in their products for example, gears, pulleys, cams, levers and linkages]. | Investigate and analyse a range of existing products <br> Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. | Design Input Motion Mechanism Criteria Research Reinforce Model |
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| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
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