



Progression of knowledge and skills in Design and Technology September 2025

| Concept - Research: Take inspiration from designs (Disciplinary Knowledge) | | | | | | | | | |
|---|---|---|---|--|---|--|--|--|---|
| EYFS - Birth to Three Years | EYFS – Three & Four Years | EYFS - Reception | EYFS ELG | Year One | Year Two | Year Three | Year Four | Year Five | Year Six |
| <p>To use their imagination as they consider what they can do with different materials.</p> | <p>To explore different materials freely, in order to develop their ideas about how to use them and what to make</p> <p>To develop their own ideas and then decide which materials to use to express them</p> | <p>To return to and build on their previous learning, refining ideas and developing their ability to represent them</p> <p>To create collaboratively sharing ideas, resources and skills</p> <p>To explore, use and refine a variety of artistic effects to express their ideas and feelings</p> <p>To create collaboratively sharing ideas, resources and skills</p> | <p>Share their creations, explaining the process they have used; - (ELG)</p> | <p>To discuss existing products and how they are made.</p> | <p>To discuss existing products: what they are and who/what they are for.</p> <p>To identify materials used in an existing product.</p> <p>To discuss likes/dislikes about an existing product.</p> | <p>To research existing products and discuss the overall purpose.</p> <p>To discuss the aesthetic qualities of an existing product.</p> <p>To understand how products work to achieve their purpose.</p> | <p>To research and evaluate existing products.</p> <p>To evaluate different products and take inspiration for their own design criteria.</p> | <p>To conduct research and use different sources to gather information about existing products.</p> <p>To discuss and analyse a range of existing products.</p> <p>To understand how key events in design and technology have helped to shape the world.</p> | <p>To discuss some of the great designers.</p> <p>To suggest improvements upon existing designs and products.</p> |

Concept – Design: Developing, planning and communicating ideas (Disciplinary Knowledge)

| EYFS - Birth to Three Years | EYFS – Three & Four Years | EYFS - Reception | EYFS ELG | Year One | Year Two | Year Three | Year Four | Year Five | Year Six |
|---|---|--|--|--|--|--|--|---|---|
| <p>To explore different materials, using all their senses to investigate them</p> | <p>To explore different materials freely, in order to develop their ideas about how to use them and what to make</p> <p>To develop their own ideas and then decide which materials to use to express them</p> | <p>To return to and build on their previous learning, refining ideas and developing their ability to represent them</p> <p>To create collaboratively sharing ideas, resources and skills</p> | <p>Share their creations, explaining the process they have used; - (ELG)</p> <p>Make use of props and materials when role playing characters in narratives and stories (ELG)</p> | <p>To draw on own experiences to generate ideas.</p> <p>To identify the purpose of a product.</p> <p>To design a product against a simple design criteria.</p> <p>To use pictures and words to plan.</p> | <p>To develop ideas through discussion and observation.</p> <p>To take design inspiration from existing products..</p> <p>To identify the purpose and audience for what they intend to design and make.</p> <p>To identify a simple design criteria.</p> <p>To make simple design drawings with labels.</p> <p>To create a template/mock-up of their design.</p> | <p>To generate ideas by considering the purpose of their design.</p> <p>To describe the purpose and intended audience of their product to support their design.</p> <p>To establish a simple design criteria for a functional product.</p> <p>To make design drawings with clear labelled aspects and an outline of materials/equipment needed.</p> <p>To develop designs by modelling ideas in the form of a prototype.</p> | <p>To generate ideas for a product by considering the purpose and audience.</p> <p>To generate a range of realistic ideas that focus on the needs of the user.</p> <p>To make labelled designs from different viewpoints.</p> <p>To outline the making process alongside the materials, components and appropriate tools needed.</p> | <p>To generate ideas through mind-mapping.</p> <p>To create a design criteria which identifies essential and desirable aspects.</p> <p>To draw multiple designs with key label and identify positives and negatives.</p> <p>To produce a detailed plan of their chosen design.</p> <p>Create a step by step guide of the making process.</p> <p>To experiment with materials and equipment to make a functioning prototype.</p> | <p>To carry market research through interviews, surveys and questionnaires.</p> <p>To identify the needs, wants and preferences of the intended user.</p> <p>To develop their own specification against their own design criteria.</p> <p>To use CAD (Computer Aided Design) to design elements of a product.</p> <p>To develop a design proposal through modelling their ideas in a variety of ways.</p> |

Concept – Make: Working with tools, equipment, materials and components (Disciplinary Knowledge)

| EYFS - Birth to Three Years | EYFS – Three & Four Years | EYFS - Reception | EYFS ELG | Year One | Year Two | Year Three | Year Four | Year Five | Year Six |
|--|---|---|--|---|---|---|--|--|---|
| <p>To develop manipulation and control</p> <p>To explore with different materials and tools</p> <p>To manipulate and play with different materials</p> | <p>To join different materials and explore different textures</p> <p>To explore different materials freely, in order to develop their ideas about how to use them and what to make</p> <p>To develop their own ideas and then decide which materials to use to express them</p> <p>To use on Use one-handed tools and equipment, e.g, making snips in paper with scissors</p> | <p>To develop their small motor skills so that they can use a range of tools competently, safely and confidently; glue stick, sellotape, masking tape, scissors</p> <p>To develop their small motor skills so that they can use a range of tools competently, safely and confidently; hole-punch, split-pins, treasury tags</p> | <p>Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function; - (ELG)</p> <p>Make use of props and materials when role playing characters in narratives and stories (ELG)</p> | <p>To identify different tools and know the correct name.</p> <p>To describe the purpose of different tools.</p> <p>To select and use a range of different materials and components for a particular purpose.</p> <p>To join materials using simple techniques.</p> <p>To safely use scissors to cut.</p> <p>To use glue and masking tape to join materials and components.</p> <p>To use simple finishing techniques to improve the appearance of the product.</p> | <p>To describe materials and components according to their characteristics.</p> <p>To select the correct tools and equipment for a project.</p> <p>To begin to measure and mark out.</p> <p>To assemble, join and combine different materials.</p> <p>To use hand tools safely and appropriately.</p> <p>To use finishing techniques to strengthen a product.</p> | <p>To select tools and techniques to use with their product.</p> <p>To begin to measure and mark out materials and components.</p> <p>To work safely and accurately with a range of different tools.</p> <p>To use finishing techniques to improve the appearance of a product.</p> | <p>To explain their choice of materials and components based on their functional properties.</p> <p>To select the most effective components for their product.</p> <p>To mark out, measure and cut a range of different materials with accuracy.</p> <p>To join and combine different materials and components accurately.</p> | <p>To use different tools to expertly adopt differing techniques for a desired effect.</p> <p>To cut and join materials together with accuracy to create a good quality product.</p> <p>To assemble components with working models.</p> <p>To consider appropriate aesthetic techniques and functionality.</p> <p>Begin to be resourceful with practical problems.</p> | <p>To select and use appropriate tools, materials and techniques for their product to create a desired effect.</p> <p>Use of materials and components to help make modifications as they go with precision.</p> <p>To construct products using permanent joining techniques.</p> <p>To use finishing techniques that require more than one step whilst considering aesthetic aspects and functionality.</p> |



Concept – Evaluate (Disciplinary Knowledge)

| EYFS - Birth to Three Years | EYFS – Three & Four Years | EYFS - Reception | EYFS ELG | Year One | Year Two | Year Three | Year Four | Year Five | Year Six |
|---|---|---|---|---|---|---|--|--|--|
| To express ideas and feelings through making marks, and sometimes give a meaning to the marks they make | To develop their own ideas and then decide which materials to use to express them | To create collaboratively sharing ideas, resources and skills | <i>Share their creations, explaining the process they have used; - (ELG)</i> | <p>To evaluate pre-existing product by discussing the overall purpose verbally.</p> <p>To identify the strengths of their product.</p> <p>To suggest simple improvements for their product.</p> <p>To explain what and how their product is made.</p> | <p>To identify and evaluate the strengths and weaknesses of their product.</p> <p>To identify possible changes they could make to their design/product.</p> <p>To discuss what went well and what could have been done differently.</p> | <p>To evaluate their product against their design criteria.</p> <p>To identify what worked well during the making stage.</p> <p>To identify the strengths and weaknesses of their product.</p> <p>To consider views of others with improvement suggestions linking to the design brief.</p> | <p>To evaluate their work during and after they have made their product.</p> <p>To evaluate their product by carrying out appropriate tests to check its purpose.</p> <p>To evaluate the appearance and usability of their product.</p> <p>To evaluate against the design brief.</p> | <p>To evaluate their product against their own design criteria and specification.</p> <p>To evaluate their product independently and determine if it is fit for purpose?</p> <p>Suggest improvements considering materials and methods used.</p> | <p>To identify the strengths and weaknesses of their product by carrying out appropriate tests.</p> <p>To record their evaluations using detailed drawings with labels.</p> <p>To evaluate their product against their own specification and suggest areas of improvements.</p> <p>To evaluate their peers' products.</p> <p>To consider the sustainability of their product and how much it would cost to make.</p> |

Concept – Nutrition (Disciplinary Knowledge)

| EYFS - Birth to Three Years | EYFS – Three & Four Years | EYFS - Reception | EYFS ELG | Year One | Year Two | Year Three | Year Four | Year Five | Year Six |
|--|--|--|--|--|---|--|---|---|---|
| <p>To eat finger food and develop likes and dislikes</p> <p>To try a wider range of foods with different tastes and textures</p> | <p>To start to eat independently and learning how to use a knife and fork</p> <p>To make healthy choices about food, drink, activity and toothbrushing</p> | <p>To develop their small motor skills so that they can use a range of tools competently, safely and confidently; knives, forks and spoons</p> <p>To know and talk about the different factors that support their overall health and wellbeing: healthy eating</p> | <p><i>Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function; - (ELG)</i></p> | <p>To understand basic food hygiene.</p> <p>To understand how to be safe about cooking equipment.</p> <p>To understand the basics of a healthy diet.</p> <p>To understand the components of a healthy snack.</p> <p>To develop practical skills: - Pour - Peel - Measure - Cut - Mix</p> | <p>To follow safe procedures for food safety and hygiene.</p> <p>To understand where different foods come from.</p> <p>To identify the key principles for a healthy diet.</p> <p>To look at different foods from around the world.</p> <p>To develop practical skills: - Slice -Grate</p> | <p>To reinforce knowledge of basic food hygiene.</p> <p>To use all cooking equipment responsibly and safely.</p> <p>To begin to demonstrate hygienic food preparation.</p> <p>To understand the components for a healthy and varied diet.</p> <p>To understand how different foods are sourced.</p> <p>To develop practical skills: - Knead - Bake</p> | <p>To apply their understanding of basic food hygiene.</p> <p>To apply their understanding of how to be safe around cooking equipment.</p> <p>To demonstrate hygienic food preparation.</p> <p>To look at different cooking techniques.</p> <p>To begin to use different cooking techniques.</p> <p>To follow and adapt a recipe.</p> | <p>To outline their understanding of basic food hygiene.</p> <p>To reinforce their understanding of how to be safe around cooking equipment.</p> <p>To look at more complex cooking techniques.</p> <p>To understand how foods are sourced and grown different times of year (based on the season).</p> | <p>To demonstrate a strong understanding of food handling and safety.</p> <p>To select suitable cooking techniques for a desired outcome.</p> <p>To select ingredients suitable for a particular purpose.</p> <p>To weigh and measure accurately.</p> <p>To use finishing techniques with a range of different ingredients.</p> <p>To write their own recipe.</p> |

Concept – Technical Knowledge Mechanisms and Structures (Substantive Knowledge)

| EYFS - Birth to Three Years | EYFS – Three & Four Years | EYFS - Reception | EYFS ELG | Year One | Year Two | Year Three | Year Four | Year Five | Year Six |
|---|--|---|--|---|--|---|--|--|---|
| <p>To explore different materials, using all their senses to investigate them</p> | <p>To explore different materials freely, in order to develop their ideas about how to use them and what to make</p> <p>To join different materials and explore different textures</p> | <p>To return to and build on their previous learning, refining ideas and developing their ability to represent them</p> <p>To create collaboratively sharing ideas, resources and skills</p> <p>To create collaboratively sharing ideas, resources and skills</p> | <p>Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function; - (ELG)</p> <p>Share their creations, explaining the process they have used; - (ELG)</p> <p>Make use of props and materials when role playing characters in narratives and stories (ELG)</p> | <p>To understand the characteristics of different materials.</p> <p>To understand how structures are made.</p> <p>To understand how a structure can be made stronger.</p> | <p>To understand the functional properties of a material.</p> <p>To understand the characteristics of different components.</p> <p>To understand how a structure can be made stronger, stiffer and more stable.</p> <p>To understand the purposes and uses of different mechanisms.</p> <p>To select and use a suitable mechanism for their own design (e.g. wheels, axles).</p> | <p>To apply their understanding of measures (mm, cm, m).</p> <p>To understand the aesthetic qualities of a material.</p> <p>To use technical vocabulary to describe their product.</p> <p>To develop a good understanding of how structures work.</p> | <p>To join materials using permanent and temporary fixings.</p> <p>To combine a number of components in a product.</p> <p>Selecting appropriate materials to make a strong structure.</p> <p>To look at the different functions of mechanical systems.</p> <p>To understand the components within a mechanical system.</p> <p>To evaluate the purpose of a particular mechanical system.</p> | <p>To understand the use of different mechanical systems for different existing products.</p> <p>To experiment with different levers and linkages to understand how they work (e.g. levers, sliders).</p> <p>To add mechanical elements to make movements in a finished product.</p> | <p>Measuring, making and checking the accuracy of the wood and dowel.</p> <p>To use a vice to hold wood in place.</p> <p>To use the correct techniques to saw safely under adult supervision.</p> <p>Assembling components accurately to make a steady frame.</p> <p>Experimenting with a range of cams to create a desired movement.</p> |



Design and Technology – Technical Knowledge Textiles

| EYFS - Birth to Three Years | EYFS – Three & Four Years | EYFS - Reception | EYFS ELG | Year One | Year Two | Year Three | Year Four | Year Five | Year Six |
|-----------------------------|---------------------------|------------------|----------|--|----------|--|-----------|---|----------|
| | | | | <p>To mark desired shapes onto fabric.</p> <p>To cut out simple 2D shapes made from fabric.</p> <p>To join material together using simple techniques to create a 3D textiles product: glue, staples, ribbon.</p> | | <p>To plan and mark desired shapes and outlines onto fabric.</p> <p>To use fabric scissors to cut out different fabric materials with some accuracy.</p> <p>To attach 2D shapes together using pins.</p> <p>To thread a needle.</p> <p>To join identical material together using a running stitch.</p> | | <p>To plan and design a 2D pattern piece.</p> <p>To use fabric scissors to cut out different fabric materials with accuracy.</p> <p>To join a combination of fabric shapes together.</p> <p>To use an invisible stitch.</p> <p>To choose the correct needle for a desired purpose.</p> <p>To add appropriate and aesthetically pleasing finishing techniques.</p> | |



Concept – Technical Knowledge Electrical Systems (Substantive Knowledge)

| EYFS - Birth to Three Years | EYFS – Three & Four Years | EYFS – Reception | EYFS ELG | Year One | Year Two | Year Three | Year Four | Year Five | Year Six |
|-----------------------------|---------------------------|------------------|----------|----------|----------|------------|---|-----------|----------|
| | | | | | | | <p>To make links with science and their understanding of a circuit.</p> <p>To apply their knowledge of what components a circuit needs.</p> <p>To design and make a product that incorporates a working electrical circuit.</p> | | |

Concept – Technical Knowledge Computer Aided Design (Substantive Knowledge)

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|---|
| | | | | | | | | | <p>To understand what CAD is.</p> <p>To look at existing products with CAD.</p> <p>To understand the different forms of CAD.</p> <p>To begin to use different CAD resources.</p> <p>To incorporate CAD into their design.</p> |
|--|--|--|--|--|--|--|--|--|---|