|  | EYFS | Nursery (age 3-4) | Reception (age 4-5) /ELG |
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|  | - Discuss what a product does or needs to do <br> - Explore the qualities of a range of materials <br> - Make to create an outcome. <br> - Explain why they chose their materials. <br> - Explain what they have made. | - Explore different materials freely, in order to develop their ideas about how to use them and what to make. Develop their own ideas and then decide which materials to use to express them. Join different materials and explore different textures. Create closed shapes with continuous lines, and begin to use these shapes to represent objects. | Explore, use and refine a variety of artistic effects to express their ideas and feelings. <br> Return to and build on their previous learning, refining ideas and developing their ability to represent them. Create collaboratively sharing ideas, resources and skills. <br> Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. <br> - Share their creations, explaining the process they have used. <br> - Make use of props and materials when role playing characters in narratives and stories. |
|  | - Begin to cut and tear materials. <br> - Stick and glue materials together. <br> - Use junk objects to create their own designs. <br> - Begin to consider how they join materials together. | Explore different materials freely, in order to develop their ideas about how to use them and what to make. Develop their own ideas and then decide which materials to use to express them. Join different materials and explore different textures. Create closed shapes with continuous lines, and begin to use these shapes to represent objects. | Return to and build on their previous learning, refining ideas and developing their ability to represent them. Create collaboratively sharing ideas, resources and skills. <br> - Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. <br> - $\quad$ Share their creations, explaining the process they have used. |
|  | - Stick and decorate textiles with support. <br> - Thread beads onto a string. <br> Begin to cut fabric using scissors | Explore different materials freely, in order to develop their ideas about how to use them and what to make. Develop their own ideas and then decide which materials to use to express them. Join different materials and explore different textures. Create closed shapes with continuous lines, and begin to use these shapes to represent objects. | Explore, use and refine a variety of artistic effects to express their ideas and feelings. <br> Return to and build on their previous learning, refining ideas and developing their ability to represent them. Create collaboratively sharing ideas, resources and skills. <br> - Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. <br> - Share their creations, explaining the process they have used. <br> - Make use of props and materials when role playing characters in narratives and stories. |
|  | - Mix pre-prepared ingredients with the support of an adult, safely and hygienically <br> - Use a blunt knife to spread butter or jam (or alternative) on a cracker or bread. <br> -Understand that fruit and vegetables grow, and which ones are grown in the UK. | - Make healthy choices about food, drink. <br> - Plant seeds and care for growing plants. <br> - Understand the key features of the life cycle of a plant and an animal. <br> - Begin to understand the need to respect and care for the natural environment and all living things. | - Know and talk about the different factors that support their overall health and wellbeing: including healthy eating. |


|  | Key Stage 1 |
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|  | - Work from a basic brief to generate ideas and design a simple product fit for purpose and audience. <br> - Explore suitability of common materials before making a choice. <br> - Show awareness of some products similar to their design. <br> - Develop ideas, communicating and recording them in a suitable way (e.g. design book, design page, IT, mind map) <br> - Make a simple mock-up. <br> - Make a final product. <br> Evaluate their final product - what went well? Did they follow the brief? |
|  | - Follow basic procedures for safety. <br> - Cut materials safely using scissors. <br> - Tear, fold and curl materials. <br> - Join using gluing and taping. <br> - Begin to use a simple hinge. <br> - Select materials and tools based on their properties. <br> - Create products based on a design. <br> - Explore and use simple mechanisms [e.g. levers, sliders, wheels and axles], in their products. Build structures, exploring how they can be made stronger, stiffer and more stable. |


|  | - Cut textiles using scissors and a template. <br> - Decorate textiles using crayons, paint or sticking. <br> - Join textiles using glue. <br> - Use a running stitch to join textiles using pre-prepared holes. Create simple weaving using paper or large strips of fabric. |
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|  | - Cut soft foods safely and hygienically using an appropriate tool. <br> - Measure using measuring cups and spoons. <br> - Assemble ingredients to make a simple recipe. <br> - Discuss what a healthy and varied diet should look like, naming and sorting using the five main groups. <br> - Know where a range of fruits and vegetables come from. |
|  | - Enjoy looking at different products and designs. <br> - Can say whether they like a product/design or not. <br> - Make a link between their work and a product. <br> - Start to ask their own questions about a product or design. |
|  | Lower Key Stage 2 |
| $\begin{aligned} & \tilde{U} \\ & \stackrel{y}{0} \\ & \underline{0} \\ & 0 \\ & \stackrel{c}{00} \\ & 0 \\ & 0 \end{aligned}$ | - Work from a brief to design an appealing, functional product fit for purpose and audience. <br> - Explore some possible materials, conducting a simple test to ensure suitability before making a choice. <br> - Show awareness of products similar to their own. <br> - Develop an idea, communicating and recording it in a suitable way (e.g. annotated design page, diagrams, IT) <br> - Perform basic tests, make simple prototypes/pattern pieces as appropriate. <br> - Create a final idea and translate this into a final product which fits the brief. <br> - Evaluate their final product - what went well? Did they follow the brief? How could they improve their design? |
|  | - Follow procedures for safety. <br> - Cut, tear and shape materials with increasing accuracy. <br> - Use a wider range of joining methods (e.g. fasteners, tabs, flange) <br> - Choose appropriate materials and tools for a product based on their functional properties and aesthetics. <br> - Strengthen, stiffen and reinforce a product using suitable materials. <br> - Make mechanical /moving elements (e.g. pulleys, levers and linkages) <br> - Choose appropriate materials by testing their properties using a prototype. |



|  | - Follow procedures for safety with a wider range of tools and processes. <br> - Cut and shape materials based on their design with increasing accuracy. <br> - Choose appropriate tools and methods to cut and form a wider range of materials. <br> - Choose appropriate materials by testing their properties using prototypes, justifying their choices. <br> - Make mechanical /moving elements (e.g. gears, cams and pneumatics) <br> - Use a wider range of joining methods (e.g. inserts, wrap, gusset, notch) <br> - Incorporate a more complex electrical system into their designs (e.g. more than one component / adding a switch). <br> - Use computing to program, monitor and control their products.* |
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|  | - Use seam allowance and back stitch to join textiles to create a simple product (e.g. A cushion or soft toy). <br> - Use a pattern/template to mark and cut fabric into a specific shape <br> - Use cross stitch, running stitch or filling stitch. <br> - Use applique <br> - Thread a needle and tie a knot, including finishing a thread and starting a new one within a project. <br> - Choose appropriate materials for a textile product based on its use. <br> - Weave using a variety of materials. <br> - Sew a button or bead onto a project. |
|  | - Discuss why we need to store and handle food hygienically (micro-organisms).* <br> - Measure ingredients with a degree of accuracy using an appropriate measuring device. <br> - Scale recipes up or down accordingly. <br> - Design their own simple savoury recipes and test them. <br> - Use a range of baking and cooking techniques with increasing confidence (e.g. boiling, frying, baking, grilling, steaming, roasting, microwaving) <br> - Begin to explain why a recipe or meal is healthy or not, giving reasons based on their understanding.* |



