|  | EYFS | KS1 | Lower KS2 | Upper KS2 |
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| Design | To explore and experiment with design. <br> Children can: <br> - Look at designs to gain inspiration and ideas; <br> - Begin to create own designs, focusing on colour; <br> - Experiment with drawings and sketches. | To design purposeful, functional, appealing products for themselves and other users based on design criteria. <br> To generate, develop, model and communicate their ideas through talking, drawing, templates, mockups and, where appropriate, information and communication technology. <br> Children can: <br> use their knowledge of existing products and their own experience to help generate their ideas; <br> design products that have a purpose and are aimed at an intended user; <br> explain how their products will look and work through talking and simple annotated drawings; <br> design models using simple computing software; <br> plan and test ideas using templates and mock-ups; | To 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> To generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer- aided design. <br> Children can: <br> identify the design features of their products that will appeal to intended customers; <br> use their knowledge of a broad range of existing products to help generate their ideas; <br> design innovative and appealing products that have a clear purpose and are aimed at a specific user; <br> explain how particular parts of their products work; <br> use annotated sketches and cross-sectional drawings to develop and communicate their ideas; <br> when designing, explore different initial ideas before coming up with a final design; | To 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> To generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer- aided design. <br> Children can: <br> use research to inform and develop detailed design criteria to inform the design of innovative, functional and appealing products that are fit for purpose and aimed at a target market; <br> use their knowledge of a broad range of existing products to help generate their ideas; design products that have a clear purpose and indicate the design features of their products that will appeal to the intended user; <br> explain how particular parts of their products work; <br> use annotated sketches, cross-sectional drawings and |


|  |  | - understand and follow simple design criteria; work in a range of relevant contexts, e.g. imaginary, story-based, home, school and the wider environment. | when planning, start to explain their choice of materials and components including function and aesthetics; <br> test ideas out through using prototypes; <br> begin to use computer-aided design to develop and communicate simple ideas; <br> develop and follow simple design criteria; <br> work in a broader range of relevant contexts, for example entertainment, the home, school, leisure, food industry and the wider environment. | exploded diagrams, including computer-aided design, to develop and communicate their ideas; <br> generate a range of design ideas and clearly communicate final designs; <br> consider the availability and costings of resources when planning out designs; work in a broad range of relevant contexts, for example conservation, the home, school, leisure, culture, enterprise, industry and the wider environment. |
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| Make | To safely use and explore a variety of materials, tools and techniques. | To select from and use a range of tools and equipment to perform practical tasks (e.g. cutting, shaping, joining and finishing). | To select from and use a wider range of tools and equipment to perform practical tasks (e.g. cutting, shaping, joining and finishing) accurately. | To select from and use a wider range of tools and equipment to perform practical tasks (e.g. cutting, shaping, joining and finishing) accurately. |
|  | To experiment with texture, colour and function. | To select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics. | To 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. | To 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. |
|  | Children can: <br> Begin to select appropriate tools and materials; <br> - Use tools safely and | Children can: <br> Planning <br> - with support, follow a simple plan or recipe; begin to select from a range of hand tools and | Children can: <br> Planning <br> - with growing confidence, carefully select from a range of tools and equipment, explaining their choices; <br> select from a range of | Children can: <br> Planning <br> - independently plan by suggesting what to do next; <br> with growing confidence, select from a wide range of tools and equipment, explaining their |

materials and components according to their functional properties and aesthetic qualities;
tools effectively
equipment, such as scissors, graters, zesters, safe knives, juicer;

- select from a range of materials, textiles and components according to their characteristics;
Practical skills and techniques
- learn to use hand tools and kitchen equipment safely and appropriately and learn to follow hygiene procedures;
- use a range of materials and components, including textiles and food ingredients;
- with help, measure and mark out;
- cut, shape and score materials with some accuracy;
- assemble, join and combine materials, components or ingredients;
- demonstrate how to cut, shape and join fabric to make a simple product;
- manipulate fabrics in simple ways to create the desired effect;
- use a basic running stich;
- cut, peel and grate ingredients, including measuring and weighing
- place the main stages of making in a systematic order;
Practical skills and techniques
- learn to use a range of tools and equipment safely, appropriately and accurately and learn to follow hygiene procedures;
- use a wider range of materials and components, including construction materials and kits, textiles and mechanical and electrical components;
- with growing independence, measure and mark out to the nearest cm and millimetre;
- cut, shape and score materials with some degree of accuracy;
- assemble, join and combine material and components with some degree of accuracy;
- demonstrate how to measure, cut, shape and join fabric with some accuracy to make a simple product;
- join textiles with an appropriate sewing technique;
- begin to select and use different and appropriate finishing techniques to improve the appearance of a product such as hemming, tie-dye, fabric paints and
choices;
- select from a range of materials and components according to their functional properties and aesthetic qualities;
- create step-by-step plans as a guide to making;
Practical skills and techniques
- learn to use a range of tools and equipment safely and appropriately and learn to follow hygiene procedures;
- independently take exact measurements and mark out, to within 1 millimetre;
- use a full range of materials and components, including construction materials and kits, textiles, and mechanical components;
- cut a range of materials with precision and accuracy;
- shape and score materials with precision and accuracy;
- assemble, join and combine materials and components with accuracy;
- demonstrate how to measure, make a seam allowance, tape, pin, cut, shape and join fabric with precision to make a more complex product;
- join textiles using a greater variety of stitches, such as backstitch, whip stitch,

|  |  | ingredients using measuring cups; <br> begin to use simple finishing techniques to improve the appearance of their product, such as adding simple decorations. | digital graphics. | blanket stitch; refine the finish using techniques to improve the appearance of their product, such as sanding or a more precise scissor cut after roughly cutting out a shape. |
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| Evaluate | To share creations, explaining the processes they have used. <br> To suggest improvements or changes that could be made to their finished product. <br> Children can: <br> Explain the process they have used; <br> Explain the tools they have used; <br> Begin to suggest improvements. | To explore and evaluate a range of existing products. <br> To evaluate their ideas and products against design criteria. <br> Children can: <br> explore and evaluate existing products mainly through discussions, comparisons and simple written evaluations; <br> - explain <br> positives and <br> things to <br> improve for <br> existing <br> products; <br> - explore what materials products are made from; <br> - talk about their design ideas and what they are making; <br> - as they work, start to identify strengths and possible changes they might make to refine their existing design; <br> - evaluate their products | To investigate and analyse a range of existing products. <br> To evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. <br> To understand how key events and individuals in design and technology have helped shape the world. <br> Children can: <br> - explore and evaluate existing products, explaining the purpose of the product and whether it is designed well to meet the intended purpose; <br> explore what materials/ingredients products are made from and suggest reasons for this; consider their design criteria as they make progress and are willing to alter their plans, sometimes considering the views of others if this helps them to improve their product; <br> - evaluate their product against their | To investigate and analyse a range of existing products. <br> To evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. <br> To understand how key events and individuals in design and technology have helped shape the world. <br> Children can: <br> complete competitor analysis of other products on the market; <br> critically evaluate the quality of design, manufacture and fitness for purpose of products as they design and make; evaluate their ideas and products against the original design criteria, making changes as needed. |



start to explain why;

- use what they know about the Eatwell Guide to design and prepare dishes.
awareness of the need to control the temperature of the hob and/or oven;
- use a range of techniques such as mashing, whisking, crushing, grating, cutting, kneading and baking;
- explain that a healthy diet is made up of a variety and balance of different food and drink, as represented in the Eatwell Guide and be able to apply these principles when planning and cooking dishes;
- understand that to be active and healthy, nutritious food and drink are needed to provide energy for the body;
- prepare ingredients using appropriate cooking utensils;
- measure and weigh ingredients to the nearest gram and millilitre;
- start to independently follow a recipe;
- start to understand seasonality.
according to seasonality;
- understand that food is processed into ingredients that can be eaten or used in cooking;
- demonstrate how to prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source;
- demonstrate how to use a range of cooking techniques, such as griddling, grilling, frying and boiling;
- explain that foods contain different substances, such as protein, that are needed for health and be able to apply these principles when planning and preparing dishes;
- adapt and refine recipes by adding or substituting one or more ingredients to change the appearance, taste, texture and aroma;
- alter methods, cooking times and/or temperatures;
- measure accurately and calculate ratios of ingredients to scale up or down from a recipe;
- independently follow a recipe.

