



DT – Key Skills

| | Year 3 | Year 4 | Year 5 | Year 6 |
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| | <ul style="list-style-type: none"> • Cook Well, Eatwell • Greenhouse • Making It Move | <ul style="list-style-type: none"> • Fresh Food, Good Food • Tomb Builders • Functional and Fancy Fabrics | <ul style="list-style-type: none"> • Eat the Seasons • Architecture • Moving Mechanisms | <ul style="list-style-type: none"> • Food for Life • Engineer • Make Do and Mend |
| Design | <p>Develop design criteria to inform a design.</p> <p>Plan which materials will be needed for a task and explain why.</p> | <p>Use annotated sketches and exploded diagrams to test and communicate their ideas.</p> | <p>Use pattern pieces and computer-aided design packages to design a product.</p> | <p>Develop design criteria for a functional and appealing product that is fit for purpose, communicating ideas clearly in a range of ways.</p> |
| Make | <p>Create shell or frame structures using diagonal struts to strengthen them.</p> <p>Use tools safely for cutting and joining materials and components.</p> <p>Explore and use a range of mechanisms (levers, sliders, axles, wheels and cams) in models or products.</p> <p>Use appliances safely with adult supervision.</p> | <p>Prototype shell and frame structures, showing awareness of how to strengthen, stiffen and reinforce them.</p> <p>Choose from a range of materials, showing an understanding of their different characteristics.</p> <p>Select, name and use tools with adult supervision.</p> <p>Explore and use a range of mechanisms (levers, axles, cams, gears and pulleys) in models or products.</p> <p>Create detailed decorative patterns on fabric using printing techniques.</p> <p>Hand sew a hem or seam using a running stitch.</p> | <p>Build a framework using a range of materials to support mechanisms.</p> <p>Select and combine materials with precision.</p> <p>Name and select increasingly appropriate tools for a task and use them safely.</p> <p>Use mechanical systems in their products, such as pneumatics.</p> | <p>Select the most appropriate materials and frameworks for different structures, explaining what makes them strong.</p> <p>Choose the best materials for a task, showing an understanding of their working characteristics.</p> <p>Select appropriate tools for a task and use them safely and precisely.</p> <p>Pin and tack fabrics in preparation for sewing and more complex pattern work.</p> <p>Use different methods of fastening for function and decoration, including press studs, Velcro and buttons.</p> |
| Evaluate | <p>Suggest improvements to their products and describe how to implement them, beginning to take the views of others into account.</p> | <p>Identify what has worked well and what aspects of their products could be improved, acting on their own suggestions and those of others when making improvements.</p> | <p>Test and evaluate products against a detailed design specification and make adaptations as they develop the product.</p> | <p>Demonstrate modifications made to a product as a result of ongoing evaluation by themselves and to others.</p> |
| Technical Knowledge | <p>Explain how an existing product benefits the user.</p> <p>Explain the similarities and difference between the work of two designers.</p> <p>Describe how key events in design and technology have shaped the world.</p> <p>Explain how an existing product benefits the user.</p> | <p>Explain how and why a significant designer or inventor shaped the world.</p> <p>Create and complete a comparison table to compare two or more products.</p> <p>Investigate and identify the design features of a familiar product.</p> | <p>Describe the social influence of a significant designer or inventor.</p> <p>Explain how the design of a product has been influenced by the culture or society in which it was designed or made.</p> <p>Explain the functionality and purpose of safety features on a range of products.</p> <p>Survey users in a range of focus groups and compare results.</p> | <p>Create a detailed comparative report about two or more products or inventions.</p> <p>Present a detailed account of the significance of a favourite designer or inventor.</p> <p>Analyse how an invention or product has significantly changed or improved people's lives.</p> |
| Cooking and Nutrition | <p>Identify and name foods that are produced in different places.</p> <p>Identify the main food groups (carbohydrates, protein, dairy, fruits and vegetables, fats and sugars).</p> <p>Prepare and cook a simple savoury dish.</p> | <p>Design a healthy snack or packed lunch and explain why it is healthy.</p> <p>Identify and name foods that are produced in different places in the UK and beyond.</p> <p>Identify and use a range of cooking techniques to prepare a simple meal or snack.</p> <p>Work safely with everyday chemical products under supervision, such as disinfectant hand wash and surface cleaning spray.</p> | <p>Describe what seasonality means and explain some of the reasons why it is beneficial.</p> <p>Evaluate meals and consider if they contribute towards a balanced diet.</p> <p>Use an increasing range of preparation and cooking techniques to cook a sweet or savoury dish.</p> | <p>Explain how organic produce is grown.</p> <p>Follow a recipe that requires a variety of techniques and source the necessary ingredients independently.</p> <p>Plan a healthy daily diet, justifying why each meal contributes towards a balanced diet.</p> |