

Design and Technology Progression Document



| | Mechanisms | Structures | Cooking | Design | Tools | Evaluate |
|--------|--|--|--|--|---|--|
| Year 6 | Can I understand and use mechanical and electrical systems in my product? | | | Can I use research to design a product and show ideas using exploded diagrams? | Can I independently choose appropriate tools and materials from a range for a practical task based on their aesthetic properties? | Can I evaluate my ideas and products against my own design criteria whilst considering the views of others to improve my work? |
| Year 5 | Can I understand and use mechanisms (gears, pulleys, levers and linkages) in my product? | Can I apply my understanding of how to strengthen, stiffen and reinforce more complex structures? | | Can I use research to design a product and show ideas using cross-sectional diagrams? | Can I independently choose appropriate tools and materials from a range for a practical task based on their function? | Can I evaluate my ideas and products against my own design criteria? |
| Year 4 | Can I understand and use electrical systems in my product? | | Can I understand seasonality and know where and how a variety of ingredients are grown, reared, caught and processed? Can I prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques and applying the principles of a healthy and varied diet? | Can I use research to design a product, show ideas using labelled sketches of more than one design and discuss them? | Can I independently choose appropriate tools and materials from a range for a practical task? | Can I investigate, analyse and evaluate a range of relevant existing products against a given design criteria? |
| Year 3 | | Can I begin to apply my understanding of how to strengthen, stiffen and reinforce more complex structures? | Can I begin to understand seasonality and know where and how a variety of ingredients are grown, reared, caught and processed? Can I begin to prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques and applying the principles of a healthy and varied diet? | Can I begin to use research to design a product, show ideas using labelled sketches and discuss them? | Can I choose appropriate tools and materials from a range for a practical task? | Can I investigate and analyse a range of relevant existing products? |

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| Year 2 | Can I explore and use mechanisms (levers and sliders) in my product? | | Can I understand where food comes from? Can I use the basic principles of a healthy and varied diet to prepare dishes? | Can I draw designs for my ideas and select the best one to fit a given criteria? | Can I independently choose the correct tools and materials for a practical task? | Can I evaluate my own ideas and products against a design criteria? |
| Year 1 | Can I explore and use mechanisms (wheels and axles) in my product? | Can I build structures, exploring how these can be made stronger, stiffer and more stable? | | Can I draw designs for my ideas and talk about these? | Can I choose the correct tools and materials for a practical task? | Can I evaluate a range of real-life products? |
| Reception | Can I show an interest in technological toys with knobs or pulleys? Can I construct pieces together to build and balance? | Can I talk about the importance for good health of physical exercise, and a healthy diet, and talk about ways to keep healthy? | Can I talk about where food comes from ? | Can I construct with a purpose in mind, using a variety of resources? Can I draw and talk about my designs? | Can I use simple tools and techniques competently and appropriately? Can I select tools and techniques needed to shape, assemble and join materials that I am using? | Can I select appropriate resources and adapt my work where necessary? |
| Nursery | Can I operate mechanical toys, e.g. turns the knob on a wind-up toy or pulls back on a friction car? Can I begin to construct, stacking blocks vertically and horizontally. | Can I make a healthy choice? | Can I talk about food? | Can I talk about my designs? | Can I use various construction materials? Can I choose the correct tool for a purpose. | Can I talk about what I have made? |