

Year 5 – Design and Technology

Knowledge, Skills and Understanding



Food
<ul style="list-style-type: none">• I can understand the main food groups and the different nutrients that are important for health• I can understand how a variety of ingredients are grown, reared, caught and processed to make them safe and palatable / tasty to eat• I can select appropriate ingredients and use a wide range of techniques to combine them
Mechanical and electrical systems
<ul style="list-style-type: none">• I can understand how to use more complex mechanical and electrical systems• I can use my research into existing products and my market research to inform the design of my own innovative product• I can create prototypes to show my ideas• I can make careful and precise measurements so that joins, holes and openings are in exactly the right place• I can produce step by step plans to guide my making, demonstrating that I can apply my knowledge of different materials, tools and techniques
Structures
<ul style="list-style-type: none">• I can make detailed evaluations about existing products and my own considering the views of others to improve my work• I can build more complex 3D structures and apply my knowledge of strengthening techniques to make them stronger or more stable