

Design and Technology – Upper Key Stage 2

Developing, planning and communicating ideas	Working with tools, equipment, materials and components to make quality products	Evaluating processes and products
<ul style="list-style-type: none"> • I can come up with a range of ideas after I have collected information. • I can take a user’s view into account when designing. • I can produce a detailed step-by-step plan. • I can suggest some alternative plans and say what their good points and drawbacks are about each. • I can explain why my finished product is going to be of good quality. • I can explain how my product will appeal to the audience. • I can use a range of information to inform my design. • I can use market research to inform plans. • I can work within constraints. • I can follow and refine my plan if necessary. • I can justify my plan to someone else. • I can consider culture and society in my designs. 	<ul style="list-style-type: none"> • I can choose the most appropriate materials for the product and explain my choices. • I can persevere through different stages of the making process. • I can use tools and materials precisely. • I can change the way I am working if needed. • I can consider the use of the product when selecting materials. 	<ul style="list-style-type: none"> • I can check whether anything could be improved throughout the process. • I can evaluate appearance and function against the original criteria. • I can test and evaluate my final product to ensure it is fit for purpose. • I can consider whether different resources would have improved my product. • I know whether I need more or different information to make it even better. • I can make a product to meet all design criteria.

Breadth of study

Cooking and nutrition	Textiles	Mechanisms & Structures	Mechanisms & Structures
<ul style="list-style-type: none"> • I can describe how to be hygienic and safe, including food preparation. • I can present my product well. • I can explain how my product should be stored with reasons. • I can set out to grow my own products with a view to making a salad, taking account of time required to grow different foods. • I can use a variety of preparation techniques precisely, including cutting, peeling, grating, whisking and mashing. 	<ul style="list-style-type: none"> • I can think about how my product could be sold. • I can think about what would improve my product even more. • I can apply techniques to a marketable product 	<ul style="list-style-type: none"> • I can refine my product after testing it. • I can incorporate hydraulics and pneumatics. • My measurements are accurate enough to ensure that my product is strong and fit for purpose. • I am motivated enough to refine and further improve my product using moldable materials. • I can justify why I selected specific materials. • I can ensure that my work is precise and accurate. • I can hide joints so as to improve the looks of my product. • I can justify why the chosen material was the best for the task. • I can justify design in relation to the audience. 	<ul style="list-style-type: none"> • I can use different kinds of circuit in my product. • I can incorporate a switch into my product. • I can think of ways in which adding a circuit would improve my product.