|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Year 1 key skills | Year 2 key skills | Year 3 key skills | Year 4 key skills | Year 5 key skills | Year 6 key skills |
| Design | I can design purposeful, functional products for myself to use.I can generate ideas through talking with others | I can design purposeful, functional and appealing products for myself and others based on design criteria.I can generate, develop, model and communicate my ideas through talking and drawing and making templates. | I know why products are used for a specific purposeI can make simple plans of a model and begin to develop these ideas. | I can research designs to understand why they are used for the purpose they are used for.I can use plans and annotate them to show my ideas. | I can use research and develop design criteria for my design and ensure they are fit for purposeI can generate and develop designs with annotated patterns and sketches. | I can research and develop design criteria to inform the design of innovative, functional and appealing products that are fit for the purpose.I can generate, develop, model and communicate ideas through discussion, annotated sketched and exploded diagrams, using patterns. |
| Make | I can use a range of tools, such as scissors and glue to cut and stick things.I can use different materials to make a product. | I can select from a range of tools to cut, shape, join and finish products.I can select the appropriate materials for my product, according to its characteristics, including textiles | I can use simple tools and equipment to perform practical tasks such as scissors, glue and tapes.I can use a range of materials, including textiles, construction materials that have been selected for me. | I can use simple cutting equipment like saws and the glue gun with supervision.I can begin to select my own materials for a specific purpose to make product, including construction and textile materials | I can select from a range of tools and equipment to perform practical tasks, such as saws, glue guns and drills.I can select from a wide range of materials and components, including construction and textiles according to their functional properties. | I can select from a wide range of tools and equipment to perform practical tasks such as cutting, shaping, joining and finishing, suing drills, saws and glue gunsI can select from and use a range of materials according to their functional and aesthetic properties. |
| Evaluate | I can comment on existing productsI can make comments about my own product | I can explore and evaluate a range of existing products. | I can comment on existing productsI can comment on my own ideas against simple designs I have madeI know that there are famous designers of technology who have helped us today. | I can begin to investigate a range of existing products.I can evaluate my ideas and products against the original plan I made I understand that designers have helped shape the World. | I can investigate and analyse a range of productsI can evaluate my own ideas and products against my own design criteria and begin to consider the views of others to improve my workI understand how key events and individuals in design and technology have helped shape the world and have studied one of these | I can investigate and analyse a range of existing products.I can evaluate my own ideas and products against my own design criteria consider the views of others to improve my workI understand how key events and individuals in design and technology have helped shape the world and have studied one of these. |
| Technical Knowledge | I can build structures and explore how they can be made stronger, stiffer and more stable. | I can explore and use mechanisms such as wheels and axis and levers or sliders. | I can apply my understanding of how to strengthen, stiffen and reinforce more complex structures, once this has been modelled to me. | I can apply my understanding of how to strengthen, stiffen and reinforce more complex structures.I understand the use of electrical systems in my products. | I understand and can use mechanical systems in my products for example, gears, pulleys, cams. Levers and linkages | I can use and explain the use of electrical systems in my products, including motors, lights and series circuits.I can apply my understanding of computing to programme, monitor and control my product. |
| Cooking and Nutrition | I know simple, what a healthy diet isI can prepare simple dishes uses healthy ingredients. | I can use the basic principles of a healthy and varied diet to prepare dishesI understand where food comes from | I understand what a healthy and varied diet isI can prepare a healthy savoury snack, using simple preparation techniques such as cutting, grating, juicing, peeling. | I understand and can apply the principles of a healthy dietI can prepare and begin to cook savoury dishes using simple cooking techniques such as baking, boiling, simmering | I understand seasonality and know where and how variety of ingredients are grown, reared, caught and processedI can prepare and cook a variety of savoury dishes using a range of cooking techniques. | I understand seasonality and know where and how a variety of ingredients are grown, reared, caught and processed.I can prepare and cook a variety of savoury dishes using a range of cooking techniques. |