WHEATFIELDS Primary School

TWO YEAR SCHEME OF WORK COVERAGE – DESIGN AND TECHNOLOGY Milestone Two - Lower Key Stage Two (Years 3 and 4)	
To master practical skills **Food**	• Prepare ingredients hygienically using appropriate utensils • Measure ingredients to the nearest gram accurately • Follow a recipe • Assemble or cook ingredients (controlling the temperature of the oven or hob, if cooking)
To master practical skills **Materials**	• Cut materials accurately and safely by selecting appropriate tools • Measure and mark out to the nearest millimetre • Apply appropriate cutting and shaping techniques that include cuts within the perimeter of the material (such as slots or cut outs) • Select appropriate joining techniques
To master practical skills **Textiles**	• Understand the need for a seam allowance • Join textiles with appropriate stitching • Select the most appropriate techniques to decorate textiles
To master practical skills **Electricals and electronics**	• Create series and parallel circuits
To master practical skills **Construction**	• Choose suitable techniques to construct products or to repair items • Strengthen materials using suitable techniques
To master practical skills **Mechanics**	• Use scientific knowledge of the transference of forces to choose appropriate mechanisms for a product (such as levers, winding mechanisms, pulleys and gears).
To master practical skills **Computing**	• Control and monitor models using software designed for this purpose
To design, make, evaluate and improve	• Design with purpose by identifying opportunities to design • Make products by working efficiently (such as by carefully selecting materials) • Refine work and techniques as work progresses, continually evaluating the product design • Use software to design and represent product designs
To take inspiration from design throughout history	• Identify some of the great designers in all of the areas of study (including pioneers in horticultural techniques) to generate ideas for designs • Improve upon existing designs, giving reasons for choices • Disassemble products to understand how they work