

Year Group Class	Autumn Term	Spring Term	Summer Term
<b>Year 4/5 Hazel</b>	<b>3.10 BOLOGNAISE</b> To design and make a bolognaise dish	<b>TEXTILES (KAPOW)</b> Design and make a stuffed toy	<b>3.3 ELECTRONIC MOTORS</b> To design and make a motorised car
Breadth	<b>Cooking and Nutrition</b> To design and make a bolognaise dish considering user and safety features – consider ingredients, adaptability and costs	<b>Textiles</b> To design and make a stuffed toy  To use blanket stitch, running stitch and cross stitch and applique for decoration	<b>Electrical Systems</b> To design and make a motorised car Explore rotary movement in electronic motors. Explore how when motors are combined with gears they will adjust speed To show how a motor can be used in a practical way
Threshold Concepts	Master practical skills - chopping Crushing Sautéing Stirring Design, make, evaluate, improve. Take inspiration from design – <b>pre- made bolognaise dishes – spaghetti bolognaise, lasagna and pasta al forno</b>	Master practical skills - drawing around a template, cutting a simple pattern, threading a needle, joining fabrics, running stitch, decorating fabric Design, make, evaluate and improve. Take inspiration from design – <b>puppets and soft toys</b>	Master practical skills – Measuring, estimating, cutting, joining, using electronic circuits  Design, make evaluate, improve.  Take inspiration from design – <b>motorised cars, motorised propellers, motorised fan</b>
Milestones	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). Apply knowledge of techniques to decide which would be appropriate to the task. Adapt, organise, arrange, experiment	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.  Understand the need for a seam allowance.  Join textiles with appropriate stitching.  Select the most appropriate techniques to decorate textiles	Convert rotary motion to linear Cut materials with precision and refine the finish with appropriate tools . Show an understanding of the qualities of materials to choose appropriate tools to cut and shape . Create circuits using electronics kits that employ a number of components (such as LEDs, resistors, transistors and chips). Develop a range of practical skills to create products (such as cutting, drilling and screwing, nailing, gluing, filing and sanding). Use innovative combinations of electronics (or computing) and mechanics in product designs. Use prototypes, cross-sectional diagrams and computer aided designs to represent designs. <b>Use software to design and represent product designs – Tinkercad</b>