**Design and Technology Curriculum**

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| Year Group | Autumn Term | Spring Term | Summer Term |
| Year 5  (2 hours a week) | **Product Design: Key Rack**  Pupils research and design a key rack against the given brief and specification. They learn woodwork skills, such as accurate measuring, drilling, sawing and sanding to create an attractive key rack. | **Food Technology: Healthy Eating**  Pupils learn about health, safety and hygiene in the food room. Pupils cook on a fortnightly rotation and learn basic cooking skills such as peeling, cutting and stewing. Recipes include tri-colour salad, fruity flapjacks and fruit crumble. | **Textiles: Decorative Bags**  Pupils learn how to use tie dye and block printing to decorate fabric. They learn to cut fabric accurately, pin, tack and use the sewing machine to create a bag. They will also complete their sewing machine ‘driving licence’. |
| Year 6  (2 hours a week) | **Food Technology: Baking and Decoration**  Pupils learn about health, safety and hygiene in the food room. Pupils cook on a fortnightly rotation and learn basic cooking and decorative skills using a range of icing techniques. Recipes include 3D iced biscuits, fairy cakes and a Christmas cake. | **Textiles: Pencil Cases**  Pupils will learn wax batik and silk painting to decorate their own fabric in order to make a fully functioning pencil case. Skills include using a zipper foot on the sewing machine, attaching a lining and following commercial pattern symbols. | **Product Design: Superhero Puppets**  Pupils also develop their woodwork skills by creating a cross halving joint, shaping wood using a Coping and Tenon saw and using the Pillar Drill to create a puppet based on a character. |
| Year 7  (2 hours a week) | **Textiles: Dumpy Doorstops**  Pupils use the Mexican ‘Day of the Dead’ festival to inspire and create a decorative doorstop using printing, hand embroidery stitches and appliqué. They will also build on sewing machine skills to create a curved and 3D shape. | **Food Technology: Family Meals**  Pupils learn about how to cook on gas and electric hobs, as well as the associated health and safety risks. They prepare and cook a range of main course meals on a fortnightly rotation. Recipes include savoury mince and chicken in a sauce. | **Product Design: Candle holders**  Pupils have the opportunity to practice a variation of wooden joints before making a base for a candle. They will use a 2D Design to design a decorative ‘screen’ for the candle which will be laser cut. Skills include using a greater range of cutting techniques and tools in the workshop as well as practicing Computer Aided Design skills. |
| Year 8  (2 hours a week) | **Textiles: Upcycled Aprons and Electronic Textiles**  Pupils will learn about eco issues within Technology and create an apron from an unwanted shirt, to use in the product design rotation. Pupils will also have the opportunity to use conductive thread to make a functional textiles night light.  \*Pupils will need to supply their own shirt. | **Product Design: Gumball Machines**  Pupils will build upon previous workshop skills learnt to fine tune their precision. They will also have an introduction into mechanisms and create a functional gumball machine to house their favourite sweets.  \*Pupils will need to bring in an empty jar. | **Food and Nutrition: Multicultural Foods**  An introduction in to preparing and cooking a range of multi-cultural meals with an emphasis on flavourings. Students will learn how to create meals originating from a variety of countries, researching the origins and planning for adaption to include dietary needs. |