

| <b>Design and Technology Year 8</b> |  |
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| <b>Half term 1</b>                  | In <b>textiles</b> this term the pupils will design and make their own cushion cover. They will use the sewing machine to create these. They will create an applique design on their cushion covers and learn how to create this effect using bondaweb. They will learn the different parts of the sewing machine and how to create different stitch types. They will learn to design products following a design brief and design specification and learn how to design products for a specified target group. They will learn about different types of fabric and the properties of these. |
| <b>Half term 2</b>                  | In <b>Cooking and Nutrition</b> this term we will be developing the pupil's knowledge and understanding on the subject. They will learn about nutrition and how to achieve a balanced diet. They will learn what nutrients can be found in different foods and how diets can be adapted to meet current dietary guidelines. They will make a range of products developing skills learnt in year 7 such as chopping, rubbing in, whisking, frying, and using both the hob and oven. They will cook a range of sweet and savoury dishes.   |
| <b>Half term 3</b>                  | Pupils will continue to learn about nutrition, and the Eatwell guide. Pupils will be able to identify both macro and micro nutrients and explain why these are needed in the diet.<br>They will continue to cook a range of sweet and savoury dishes.  |
| <b>Half term 4</b>                  | In <b>Resistant Materials</b> this term pupils will create two bookends with an animal theme. They will further develop their practical skills learnt in year 7 using hand and power tools suitable for pine wood. They will learn about the properties and uses of different types of hard and soft wood. They will learn about different methods to join 2 pieces of wood together and will create their bookends using these joints. They will also understand the importance of a quality finish when designing and making products.   |
| <b>Half term 5</b>                  | Pupils will continue to create their bookends. They will use paints to finish off their bookend and create the animals from their designs.   |
| <b>Half term 6</b>                  | In <b>resistant materials</b> this half term pupils will create an item of jewellery from pewter based on a sealife theme. They will design a range of products around this theme and create one by casting it from pewter, by creating a MDF. They will demonstrate their creativity by designing a company logo for their product.   |
| <b>Homework expectations</b>        | The pupils will be expected to provide their own ingredients for our Cooking and Nutrition practical lessons.<br>They will be set homework to research their projects and will require a computer and internet for these tasks.  |
|                                     | <b>The order of these projects will differ, depending on which group each pupil is in. By the end of the year all year 8's will have completed all of the projects.</b>  |

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| <b>By the time you finish key stage 3 you'll be...</b> | <p>Cook a range of sweet and savoury dishes using a wide range of skills. Be able to cook a variety of main meals.</p> <p>Have a good understanding of food hygiene and how to stay safe in a kitchen. Know how to conduct sensory analysis.</p> <p>Pupils will have a good understanding of food provenance and how this affect the environment. They will understand what food culture is and be able to explain why it varies around the world.</p> <p>They will understand what is meant by and how to achieve a healthy diet.</p> <p>Pupils will have some knowledge of the function of ingredients in foods and how this affects a recipe.</p> <p>In product design pupils will have developed their skills and knowledge to be able to undertake a GCSE in product design. They will have worked with a range of materials and processes using a wide variety of hand and power tools.</p> <p>They will have good theoretical understanding of the properties of materials, electronics, mechanisms and application of maths.</p> <p>They will be able to design for specific target groups, design briefs and specifications and evaluate their products against these.</p> |
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