

| Year A | Autumn Architecture | Spring Cooking and Nutrition | Summer Structures |
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| KS1 | <p>Can you design and create your own house?</p> <p>Children are going to be given the opportunity to be an architect. They will design, make and evaluate their own model houses. Within this unit they will explore different architects and develop a secure understanding of what architecture is and the role of an architect.</p> | <p>Can I create my own picnic snack for our teddy bears picnic?</p> <p>Children will join Mr Bear and make a range of delicious picnic foods. They will learn about different types of food and have the chance to explore a variety of picnic foods. They will design, create and evaluate their own picnic snacks from rainbow omelette cakes to delicious and nutritious kebabs.</p> | <p>Can I design a piece of playground equipment?</p> <p>Children will make their very own models of playground equipment. They will explore different types of playground equipment, how they move and what they are made from, as well as exploring different ways of joining materials together.</p> |
| | Autumn Structures | Spring Cooking and Nutrition | Summer Architecture |
| LKS2 | <p>Can you construct you own castle?</p> <p>Children will learn about the features of a castle, they will design and make their own. They will also use configurations of handmade nets and recycled materials to make towers and turrets and constructing a base to secure them to.</p> | <p>Can you design your own seasonal meal?</p> <p>Children will be learning about seasonal food and seasonal cooking. They will consider the following questions. Why are certain foods in season at different times of the year? Why is it good to eat seasonal food? How can we include seasonal food in a healthy, varied diet?</p> | <p>Can you make your own mini greenhouse?</p> <p>Children will become engineers and architects within this unit. They will find out the purpose of a greenhouse and how it works, before moving on to exploring how structures like these can be made more stable, and what materials would be the most appropriate to use. Using their knowledge, they will then design, make and evaluate their very own mini greenhouse.</p> |

| | Autumn Textiles | Spring Structures | Summer Cooking and Nutrition |
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| UKS2 | <p>Can I make my own felt phone case? This Felt Phone Cases unit will teach children how to write their own design criteria. They will design products with the user in mind thinking about aesthetics and functionality. Annotated designs will be used to communicate ideas as well as step by step plans. Children will learn how to make a paper template and how to sew a running stitch, backstitch, whipstitch and blanket stitch. Finally, when they have made their felt phone case, children will learn how to write a detailed evaluation.</p> | <p>Can you create your own marble run? This Marbulous Structures unit gives children opportunities to develop their understanding of more complex free standing structures and how they can be strengthened and reinforced. Children will gain knowledge and understanding about how to join and shape materials. Children will then apply these skills, using an iterative design process, to create their marble runs. Finally, children will test and evaluate their marble runs against design criteria.</p> | <p>Can you plan, shop and create your own British food? This unit will help children to learn all about great British food. They will explore some sweet and savoury national dishes of England, Scotland and Wales, before moving onto developing an understanding of how cuisines from other countries have influenced what is eaten in Britain today. Finally, children will practise the important life skill of how to plan and shop for a meal.</p> |
| Year B | Autumn Textiles | Spring Mechanisms and Mechanical Systems | Summer Cooking and Nutrition |
| KS1 | <p>Can you design and make your own bunting to help with counting? This Fabric Bunting unit will teach children about working with fabric. It starts with children evaluating a range of existing bunting with a theme around counting. Children are then set a design criteria. They will learn how to use a graphics program to create a design and template for their bunting. Working with felt, children will cut out a bunting shape and use a simple running stitch. Children will be given the chance to explore</p> | <p>Can you make your own fire engine? Children are going to explore modern fire engines and their features, before exploring, designing, creating and evaluating their own model fire engine using wheels, axels and chassis.</p> | <p>Can you make some yummy seaside snacks? Within this topic, children will be tasting, exploring and thinking about a range of food. They will be exploring different elements of a picnic, experiencing flavours, textures and colours of different foods. They will then have the opportunity to design their own seaside picnic, thinking carefully about what makes a balance meal.</p> |

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| | <p>different fabrics that they could use to enhance their designs. Using techniques such as sewing, stapling and gluing, children will decorate their felt flag. Finally, children will evaluate their product. Children will use a simple computer program to design their bunting.</p> | | |
| | <p>Autumn Electrical Systems</p> | <p>Spring Textiles</p> | <p>Summer Cooking and Nutrition</p> |
| LKS2 | <p>Can you make your own Light up sign? Within this unit, children will be designing and making their own decorative light box with illuminated words or letters. They will use Computer Aided Design to design their product. Children will decide precisely what tools and material they would like to use in the design and creation of an attractive product. Towards the end of the unit, they will begin to learn how lights inside electronic products may be programmed and controlled.</p> | <p>Can I make my own juggling ball? This Juggling Balls unit will teach children how to make juggling balls. They will start by exploring and evaluating different juggling balls. Children are then given a design brief, asking them to design and make a circus themed juggling ball. A hemming and overcast stitch will be introduced during this unit. Children will learn about decoration techniques; getting the chance to use tie-dye and fabric paints. Finally, when they have completed the making of their juggling ball, children will evaluate their product against design criteria.</p> | <p>Can you make a range of American foods? Within this unit, children will find out about classic American favourite food as well as the many, varied, cultural influences that make American cuisine special. They will prepare a variety of side dishes for an Independence Day party.</p> |
| | <p>Autumn Programming and Electronics</p> | <p>Spring Mechanisms and Mechanical Systems</p> | <p>Summer Cooking and Nutrition</p> |

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| <p>UKS2</p> | <p>Can I programme electronic components for my own room system design? Children will be challenged to consider how the electrical products around us work. Children will be challenged to consider this and many other questions about computer-controlled products as they discover how simple computer systems may be constructed and programmed to make products work. They will focus on designing, developing, testing and prototyping computer-controlled electronic systems for rooms such as motion-sensor activated alarms, door buzzer entry systems or even 'smart home' automatic lights.</p> | <p>Can you design, make and evaluate something in the classroom that needs improving? Children will learn about the engineer: James Dyson. This unit aims to inspire children to want to be engineers in the future. Children will design, make and evaluate something which needs improving in the classroom.</p> | <p>Can you design, make and evaluate your own balanced seasonal meal? This 'Super Seasonal Cooking' unit of work will teach children about the importance of buying seasonal food. The first part of the unit provides an opportunity for children to learn where, when and how a variety of ingredients are grown, reared, caught and processed. Children will then have the chance to sample some spring seasonal food before designing their own balanced seasonal meal. They will learn how to cook with the seasonal ingredients following their own recipes and using a wide range of preparation and cooking techniques. Finally, children will evaluate their product against their design criteria. Children will learn appropriate hygiene rules for handling meat and fish and safe preparation skills.</p> |
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