

	Autumn	Spring	Summer
Nursery	Linked to their 'on entry' assessment, children will be challenged to develop their individual fine motor skills through scissor control, pencil control and one-handed tools and equipment. Resources are continuously available for children can follow their own interests and explore at their own will. This includes opportunities for children to develop their own ideas and how to express them, the opportunity to explore different textures and materials and choosing the correct ways to join different materials. Different tools and joining materials such as masking tape, glue, scissors, food preparation tools and dough tools will be freely available for use alongside directed tasks. Children will discuss how their creations make them feel.		
	Let's Celebrate: Harvest, Black History Month, Diwali, Halloween, Bonfire Night, Hanukkah, Christmas, Autumn All about me! During this term children will explore tools such as rolling pins, tweezers, scissors and mark making tools. Children will make a 'flap picture' based on the story 'Where's Spot?' Children will use glue and masking tape as a means of joining materials. Children will use salt dough to create a Diva Lamp, bake bread with an adult during Harvest.	Let's Celebrate: New Year, Chinese New Year, Valentines and the people we love, World Book Day, Mother's Day, Easter, Winter, Spring, Traditional Tales During this term children will explore tools such as rolling pins, tweezers, garlic presses, scissors and mark making tools. Children will make an Easter Card using a range of man-made and natural materials. They will bake biscuits with an adult. Children will use glue, masking tape and split pins as a means of joining materials.	Let's Celebrate: Eid, Gypsy, Roma and Traveller History Month, Father's Day, Pride, Summer Let's Grow During this term children will explore tools such as rolling pins, tweezers, garlic presses, scissors and mark making tools. Children will verbally plan, design and create a medal for their father or father figure with support. Children will bake a cake with an adult. Children will use glue, masking tape, split pins and basic sewing with support as a means of joining materials.

Reception	Marvellous Me Celebrations	Big Freeze Super Food	Me and My Universe Out and About
	Linked to baseline assessments, children will be challenged to develop their individual fine motor skills and scissor, pencil and paintbrush control. Whilst resources are available continuously so children can follow their own interests and challenged as per their needs, children will be supported and challenged to begin to create with a purpose in mind within provision and challenged to create simple models of toys linked to a birthday present theme and Christmas workshop theme. Appropriate enhancements such as mask making and poppy making tasks will be used as enhancements to allow the development and application of skill. Colour mixing primary colours will be introduced and investigated and embedded into provision. The safe and effective use of tools will be introduced alongside balsa wood in the woodwork area. Children will cook and begin to develop their understanding of hygiene and safety and observe the changes.	Linked to ongoing assessments, children will be challenged to develop their individual fine motor skills and scissor, pencil and paintbrush control. Whilst resources are available continuously so children can follow their own interests and challenged as per their needs, children will be supported and challenged to develop their ability to create with a purpose in mind within provision and challenged to create simple models such as a boat and make adaptations. Appropriate enhancements such as Chinese New Year, Valentines and Easter cutting crafts will be used as enhancements to allow the development and application of skill. Colour mixing with powder paints will be introduced and investigated and embedded into provision. Split pins will be introduced to the children as an alternative means of joining. Children will progress to work with pine wood in the woodwork area. Children will cook with increased understanding of hygiene and safety and observe the changes.	Linked to ongoing assessments, children will be challenged to secure their individual fine motor skills and scissor, pencil and paintbrush control. Whilst resources are available continuously so children can follow their own interests and challenged as per their needs, children will be supported and challenged to secure their ability to create with a purpose in mind within provision and challenged to create simple models such as a rocket by investigating and applying different joining techniques. Colour mixing with powder paints will be embedded into provision and children will begin to explore tone. Children will continue to work with pine wood in the woodwork area. Challenges may now be introduced such as the making of bird boxes. Children will cook with increased understanding of hygiene and safety and observe the changes.

Year 1	Food Know about basic hygiene and safety Know the benefits of fruit and vegetables Linked with Science, children will cut, chop and prepare a variety of fruit and vegetables with support as needed. They will talk about size, shape, structure, texture, density (hard or soft) and will make fruit kebabs, soup etc. RRS: Article24	Mechanisms Children will develop their understanding of mechanisms and create a moving picture using sliders Children will use more detailed pictures to help them explain their ideas. They will be able to make a list of what they will need and explain how they will use the equipment safely and effectively.	Structures Following on from making models randomly in Reception, children will design a freestanding structure such as playground equipment. They will talk about their ideas and say what will be done, describe what they want to do using pictures and words in a plan and they will make lists of materials they will need. They will make their structure, by joining materials together, often with glue and tape, using scissors, sometimes with help. They will test and evaluate their structure using key vocabulary.
Year 2	Textiles Using their topic of animals as inspiration, and a number of texts covered in English lessons, children will create a 3D product in the form of a puppet. Children will use existing products to decide which type would be the most effective. They will design the product by drawing and labelling. Children will choose the best materials to use for different purposes and discuss why	Food Linking to the theme of explorers, children will design a healthy snack suitable for an explorer to eat. They will expand their knowledge from Year 1 and build on this. Children will understand where different food comes from and improve their knowledge of the 'eat well' plate. Children will know that people should eat at least five portions of fruit and veg every day.	Mechanisms Enhancing the skills learnt in Year 1, children will create their own moving vehicle which incorporates wheels, axels, levers and sliders. Children will explore a variety of moving vehicles and how they work. Choosing the correct materials will allow them to create a plan of their own. Their plan will incorporate axels and wheels and how they move together. Children will improve their

	these choices are made. Children will be able to measure and cut out fabric and use simple templates to cut out and join using simple joining devices. When finished, children will discuss and evaluate what went well with their puppet and what they would do to improve next time.	They will use the principles of a healthy and varied diet to help them design and prepare a basic dish of their own. Whilst doing this, children will improve their understanding of combining ingredients and use a variety of techniques including: weighing, cutting, chopping and measuring. Children will be able to evaluate the product they make and use words such as 'like and dislike'. RRS: Article 24	understanding of how to successfully join, fix and combine materials together.
Year 3	Mechanisms Carrying on their knowledge of mechanisms children will begin to use detailed plans to allow them to find the best technique and material. Children will use inspiration from various sources and choose their own material after evaluating its effectiveness. In this unit children will be learning how to construct a functioning mechanism. We will be learning key terms in construction of levers and linkages before constructing a pop-up card. Children will discuss the audience and suggest improvements.	Structures Building on the skills learnt in Year 2 children will accurately design, measure and construct a 3-D shell structure based on food containers, their purpose and key features. The children will choose appropriate materials to construct their structure, as well as adding key nutritional information. In this unit we will be focusing on shell structures. As a class we will be developing the use of different materials, and the impact of their shape and strength. We will explore nets of different packaging and design and create own package for a healthy food product.	Food and nutrition and Structures Using their Egyptian topic as inspiration, children will carry on building their knowledge of food and nutrition. Children will gain understanding of how food is grown around the world and how to safely prepare and store food. Children will begin to choose their own ingredients and create a recipe for a healthy granola bar fit for consumption today. RRS: Article 24

Year 4	Electrical After learning about making circuits in Science, the children will design a Christmas card that uses electricity. Children will consider how the product will be used and understand that their design must meet a range of criteria. Children will produce step-by-step plans, making on-going sketches and annotations before making their product. Children will carry out tests and make improvements along the way.	Textiles Children will design and make a coin purse. Children will revisit textiles to look at developing their sewing skills to work with a range of fabrics and include fasteners. Children will develop their designs through their own reflection and research and enhance their product with decoration.	Mechanisms Building on from their knowledge of mechanisms (moving vehicles) in Year , the children will explore, design, make and evaluate a pneumatic toy e.g. car. Children will build on their previous understanding of mechanisms to create a structure employing previously learned skills in strengthening and joining. They will consider how some properties can be used e.g., Different materials for strengthening. The children will then design and create a moving element to their structure using. Children will carry out tests before making improvements and evaluating.

Year 5	Mechanisms Building on the knowledge of mechanisms learned in KS1 and Year 4, children will design and build a moving toy using a CAM mechanism. Children will make more complex mechanisms including belts and pulleys, and a combination of other mechanisms (CAMS). They will use various sources of information and draw on them in design. Children will carry out tests to see if their design works and make improvements from design suggestions. They will identify what is working well and what might be improved – and make choices from several alternatives. Children will refine the quality of the finished product, including making annotations on the design.	Structure- design and make a bridge Building on previous learning about structures and strengthening in Year 4, as well as linking to their geography topic, children will design and create a functioning structure – bridge. Children will explore a range of different bridge, such as swing bridges, truss bridges and suspension bridges. They will use sketches to show ways of doing things – and then make choices about their work, referring to various sources of information and drawing on them in design. They will measure and cut precisely to millimetres and make stable and strong joins to stand the test of time. They will refine the quality of the finished product, including making annotations on the design.	Food Technology. After learning about South America and building on previous knowledge of food technology from Year 2, the children will design and create their own healthy savoury meal. They will meet the identified need by selecting ingredients or materials and plan the order of work by thinking ahead. The children work in a safe and hygienic way, using proportions when cooking, by doubling and halving recipes. They will identify what is working well and what might be improved – and make choices from several alternative ingredients. RRS: Article 24
Year 6	Electrical Following on from their learning in year 4 and linking to their current Science topic, the children will explore and create a more complex circuit. Linking with their work within the community and keeping our local	Textiles Using the Victorians as inspiration, children will create their own sampler. Children will research designs for samplers on the internet, through books as well as by examining actual pieces of embroidery and frame work. They will use	Food Technology Linking to the geography topic of around the world and previous learning in Year 3, children will develop their understanding of food from around the world.

	area safe, the children will will research how and why alarms are needed, how they are constructed constructed, their purpose and overall effective design. They will generate their designs, communicate ideas and work collaboratively. They will test materials for a variety uses and evaluate their designs accordingly. They will draw upon their knowledge of joining, strengthening and testing materials to create a working alarm for a vehicle/home.	these ideas as inspiration for their own designs, progressing on to createing their own CAD design of a garment used within the Victorian era. They will then print their design (pattern) and develop their sewing skills by incorporation a range of stiches in their work. Children will make sure that products are carefully finished and presented.	Children will develop skills of preparing a variety of mainly savoury dishes hygienically and use appropriate techniques of cutting, chopping and peeling. They will investigate new appearances, tastes, textures and aroma of foods from all around the world. Children will investigate the seasonality of food and how recipes change with availability of foods throughout the year. RRS: Article 24
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