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| Reception | See half termly Early Years Expressive Arts and Design planning  |
| Year 1 |  |
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| Product | Toy/comforter (Adapt Kapow unit) | Cheese straws | Seaside fairground rides |
| Curriculum Links |  |  |  |
| Skills  | Children explore different ways of joining fabrics before creating their own toy/ comforter based upon characters from the story. Throughout they work to develop their technical skills of cutting, glueing, stapling and pinning. | Understand where the ingredients come from. Discuss principles of a healthy and varied diet.  | Children design, decorate and build a fairground ride. Throughout the topic they also build an understanding of what a fairground ride is, what it looks like and the different types that can be found, to help identify key features. Build structures, exploring how they can be made stronger, stiffer and more stable. |
| Year 2 |  |
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| Product | Puppets  | Pizza | Making dragons (moving joints)- Adapt Kapow moving monsters unit |
| Curriculum Links |  |  |  |
| Skills  | Children explore different ways of joining fabrics before creating their own hand puppets based upon characters from the story. Throughout they work to develop their technical skills of cutting, glueing, stapling and pinning. Having looked at ways to join fabric in Year 1, children are given their first opportunity to sew in this topic. By making their own template, children can ensure that their pieces of fabric will be exactly the right size. With their fabric cut out, pupils use a simple running stitch to join two pieces together before decorating the front of it. | Use the basic principles of a healthy and varied diet to prepare a meal. Understand where the ingredients come from. | After learning the terms; pivot, lever and linkage, children set to designing a dragon that will move using a linkage mechanism. After practising making linkages of different types and varying the materials they use, children can also bring their dragons to life with the gift of movement. |
| Year 3 |  |
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| Product | Pneumatic toys (Kapow) | Tudor house (strengthen and stiffen) | Eating seasonally (Kapow) |
| Curriculum Links | Industrial Revolution | Tudors | Romans |
| Skills  | Pupils design and create a toy with a pneumatic system, learning how trapped air can be used to create a product with moving parts while also building on their design knowledge. They will then be introduced to thumbnail sketches and exploded diagrams. | Apply their understanding of how to strengthen, stiffen and reinforce more complex structures. Annotatesketches, research and develop design criteria, evaluate product. | Children discover when and where fruits and vegetables are grown and also learn about seasonality in the UK. They will also learn about the health benefits of fruit and vegetables. |
| Year 4 |  |
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| Product | Biscuit bake off (Kapow) | Viking long ships | Slingshot car (Kapow) |
| Curriculum Links | Egytians | Vikings | Inventors |
| Skills  | Children adapt a simple biscuit recipe, to create the tastiest biscuit. While making they will also ensure that their creation comes within the given budget of the costs of ingredients | Apply their understanding of how to strengthen, stiffen and reinforce more complex structures. Select from and use a wider range of tools and equipment to perform practical tasks[for example, cutting, shaping, joining and finishing], accurately Investigate and analyse a range of existing products. Evaluate their ideas and products against their own design criteria. Sketch and develop designs.  | Children transform lollipop sticks, wheels, dowels and straws into a moving car. They will be using a glue gun to construct the materials, making the launch mechanism, designing and also making the body of the vehicle using nets and assembling these to the chassis. Understand how key events and individuals in design and technology have helped shape the world.  |
| Year 5 |  |
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| Product | Quilts  | Moon buggy (motor)- Adapt QCA moving toys unit | How to make a meal healthier (Kapow) |
| Curriculum Links | SlaveryGeography - USA | Earth & Space | Brazil |
| Skills  | Not only does this topic give them the chance to apply skills they have learned in previous topics- different types of stitch, it also introduces them to a new stitch – blanket stitch | This unit focuses on mechanisms (cams, wheels and axles). Investigate and analyse existing products, design using research and sketching. Evaluate product once made.  | Understand and apply the principles of a healthy and varied diet.Children research and modify a traditional sauce recipe to make it healthier, cook their new and improved versions and also learn about the ethical considerations of farming cattle. |
| Year 6 |  |
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| Product | Shelters- focus on precision and detail- include a light circuit) | Automata toys (mechanical systems- wooden- Kapow) | Come dine with me (Kapow) |
| Curriculum Links | Refugees | World War Two | Fairy tales |
| Skills  | Research and develop design criteria, sketch and develop ideas, make product- measure, cut, join and then use a circuit inside the product. Understand and use electrical systems in their products- light circuits. Evaluate product. | Investigate and analyse a range of existing products. Using woodworking materials and skills, pupils make and construct a window display using an automata mechanism; measuring and cutting their materials, assembling the frame, choosing cams, designing the characters that sit on the followers and also finishing with a foreground and background. Evaluate ideas against success criteria | Children research and prepare a three course meal (using a range of cookingTechniques); researching the journey of their main ingredient from ‘farm to fork’ (know where and how a variety of ingredients are grown,reared, caught and processed) |