

## Key stage 1 and 2 Design and Technology 2020-2021 Curriculum

+Year	Autumn Term	Spring Term	Summer Term
1	<p><u>Parks</u></p> <p>We will visit the local park to find out what makes a successful piece of park equipment. We will then choose a piece of park equipment to make. We will make sure our joins are strong, our model is stable and it needs to work!</p>	<p><u>Castles with Drawbridge</u></p> <p>We investigate winding mechanisms using construction equipment. We then use our learning to create a castle drawbridge using a mechanism with an axel and winder in pairs. We will evaluate in order to improve our outcome.</p>	<p><u>Yoghurts: Where does our food come from?</u></p> <p>During this unit we will develop our own recipe for a healthy yoghurt. We will learn to cut safely and measure ingredients accurately. We will develop knowledge of which foods are healthy and nutritious.</p>
2	<p><u>Puppets</u></p> <p>We will research about puppets - the history and how they are made. We will then design an animal puppet to link with our KUW. We will make a simple pattern, then cut out and fix our puppet together adding features. We will make sure our puppet is realistic, strong, works and is original.</p>	<p><u>Castles with Drawbridge</u></p> <p>We investigate winding mechanisms using construction equipment. We then use our learning to create a castle drawbridge using a mechanism with an axel and winder in pairs. We will evaluate in order to improve our outcome.</p>	<p><u>Tomatoes and Herbs</u></p> <p>We will look at the life cycle of a tomato and learn how to look after our own tomato plant in the classroom. We will research where tomatoes are grown. We will investigate and identify successful flavours for a tomato Passata sauce. We will then make a pizza bread with the sauce and toppings of our choice.</p>
3	<p><u>Stable Structures</u></p> <p>We will learn about the importance of a wide base in making a stable structure. We will build tall towers to test our bases, then use our learning to build a stable photo frame.</p>	<p><u>Sandwiches</u></p> <p>During this unit we will find out how to make a healthy sandwich. We will research shop bought sandwiches and using the Plate of Good Health. Design a tasty sandwich of our own which fulfils the success criteria. The children will then make their own sandwich and eat it for lunch.</p>	<p><u>Moving monsters</u></p> <p>Pneumatics will be explored as a way to move parts of our monster. We will then create a monster in pairs, using our teamwork skills. We need to make sure our monster is strong, stable, attractive, original and has a least two, scary moving parts!</p>
4	<p><u>Inventions</u></p> <p>We will research inventions looking at how and why they were made. We will focus on designers including Alessi and use his style to design and</p>	<p><u>Musical Instruments</u></p> <p>Alongside the science learning we will use our knowledge of sound, pitch and volume. We will make a musical instrument of our own choice</p>	<p><u>Room set light circuit</u></p> <p>We will make links to our learning within Science, to design and create a room set with a working light. We will use our construction skills to design and make a room set. We will then use our</p>

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	make a pencil sharpener. Will then move on to inventing and designing larger items.	which plays 3 notes. It must be strong, original and attractive too!	knowledge of electrical circuits to create a light with a switch.
5	<p><u>Paper Engineering</u></p> <p>We will learn about paper engineering and develop our skills to make an informative, attractive, original poster that engages the audience. This will link with our science learning about plants</p>	<p><u>Cranes</u></p> <p>We will investigate how to make a crane, linking with our learning about the Maya. We will learn about the history of the crane mechanism and how it works. The crane will need to lift a heavy weight. In order to do this it needs to be strong, stable and work.</p>	<p><u>Biscuits</u></p> <p>Food Technology skills will be used to design a biscuit for our family. We will make a basic recipe and add an ingredient. We will make sure the outcome is tasty, even sized, has a good texture and looks good. We will use our design skills to make packaging for our product.</p>
6	<p><u>Moving toys- Cam mechanisms</u></p> <p>We will learn about cam mechanisms by disassembly, then go on to make a prototype. We will use our knowledge and understanding to make a moving toy model that works using a cam. Our models will be strong ,stable and attractive.</p>	<p><u>Fix and Mend Sewing Kit</u></p> <p>Linking with the environmental impact of waste we will look at recycling, reusing and reducing. We will further develop our textile skills and produce a handmade fix and mend sewing kit.</p>	<p><u>Production Marketing</u></p> <p>Linked to our end of year play, we will make props, costumes and programmes using all the D and T skills we have developed.</p>