



St Thomas More RC Primary School
Design and Technology Whole School Overview



Year 1 Personalised Curriculum		
Autumn	Spring	Summer
<p>Eat More Fruit & Vegetables</p> <ul style="list-style-type: none"> To find out the favourite fruits and vegetables in the class and present the data in a pictogram. To examine, taste and describe a variety of fruits and vegetables To find out how to handle and prepare a variety of fruits and vegetables. To be able to make a food product based on a design. To be able to evaluate a food product based on a design. 	<p>Moving Mini Beasts</p> <ul style="list-style-type: none"> To be able to create a sliding mechanism. To be able to use levers and pivots to create a moving mechanism. To be able to create a wheel mechanism. To design a picture with a moving mechanism To make a minibeast-themed moving picture To evaluate a moving minibeast picture 	<p>Stable Structures</p> <ul style="list-style-type: none"> To explore the features of stable structures, including toy car garages explore creating various moving parts for a storybook To design and plan a stable To explore a range of materials and make decisions based on the end product. To follow a design plan and make a product. To evaluate products
Year 2 Personalised Curriculum		
Autumn	Spring	Summer
<p>Puppets</p> <ul style="list-style-type: none"> To investigate a range of puppets and their features. explore different types of stitching. To be able to work with fabric make a finger puppet. To develop and practise sewing skills. To be able to design a glove puppet. To be able to follow a design to make a puppet. To be able to evaluate a finished product. 	<p>Vehicles</p> <ul style="list-style-type: none"> To investigate a variety of vehicles and their uses and features. To investigate wheels, axles and chassis. To be able to investigate ways of creating and decorating the body of a vehicle. To be able to design a vehicle. To be able to make a vehicle based on a design. To be able to evaluate a finished design. 	<p>Perfect Pizzas</p> <ul style="list-style-type: none"> To find out what the favourite pizzas in the class are. To examine, describe and categorise a variety of bread-based products. To examine, describe and categorise a variety of pizza toppings. To design a balanced healthy pizza. To be able to make a food product based on a design. To be able to evaluate a food product based on a design.



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Year 3 Personalised Curriculum		
Autumn	Spring	Summer
<p>Storybooks</p> <ul style="list-style-type: none"> To investigate and evaluate products with lever and linkage systems. <ul style="list-style-type: none"> To experiment with a range of techniques to create moving mechanisms. To explore and experiment with a range of different fonts and graphic techniques. <ul style="list-style-type: none"> To be able to plan and design a storybook. To be able to make a storybook with moving mechanisms using a design. <ul style="list-style-type: none"> To be able to evaluate a finished product. 	<p>British Inventors</p> <ul style="list-style-type: none"> To investigate the invention of the telephone. To investigate the invention of the World Wide Web. To explore how the invention of reinforced concrete works. To investigate the invention of the mackintosh. To reflect on the impacts that inventions have had on our lives. 	<p>Light-Up Signs</p> <ul style="list-style-type: none"> To investigate and analyse illuminated signs. To understand how LEDs may be used instead of traditional incandescent bulbs in series circuits. To develop ideas for a decorative illuminated sign. To select and use tools, equipment, materials and components to make the enclosure of a decorative illuminated sign. To construct a working circuit with one or more lights, and fit it in a decorative illuminated sign. To investigate ways in which computers can be used to program and control lights in a product.
Year 4 Personalised Curriculum		
Autumn	Spring	Summer
<p>Seasonal Stockings</p> <ul style="list-style-type: none"> To explore and analyse existing products. To explore different ways to join fabric using sewing skills To explore different ways to decorate fabric using sewing skills To design a Christmas To use sewing skills to make a Christmas stocking To evaluate a finished product 	<p>Mini Greenhouses</p> <ul style="list-style-type: none"> To explore existing greenhouses To investigate stable structures. To investigate materials for making a mini greenhouse. To design a mini greenhouse. To make a mini greenhouse. To evaluate a finished product. 	<p>Seasonal Food</p> <ul style="list-style-type: none"> To cook using British ingredients available all year round. To know how seasonal fruits in Britain are grown and processed To understand why vegetables, form an important part of a healthy and varied diet.



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		<ul style="list-style-type: none"> To find out about how seasonally produced meat can form part of a healthy diet. To know how fish are caught or reared, processed and used in healthy meals. To show what you have learned about eating seasonal food as part of a healthy, varied diet.
Year 5 Personalised Curriculum		
Autumn	Spring	Summer
Building Bridges	Chinese Inventions	Fashion and Textiles
<ul style="list-style-type: none"> To explore ways in which pillars and beams are used to span gaps. To explore ways in which trusses can be used to strengthen bridges. To explore ways in which arches are used to strengthen bridges. To understand how suspension bridges are able to span long distances. To develop criteria and design a prototype bridge for a purpose To analyse and evaluate products according to design criteria. 	<ul style="list-style-type: none"> To understand how the four great inventions of China shaped the world. To understand how the four great inventions of China shaped the world. To investigate water-powered machines. To test materials to build a kite. To design a kite based on a set of design criteria. To make and evaluate a kite 	<ul style="list-style-type: none"> To investigate and analyse items made using textiles: the materials used and how they are made To explore some ways in which textiles are joined and decorated. To design an item made using textiles, and draw pattern pieces. To use pattern pieces to measure, mark and cut fabric; to sew design elements according to a design. To join fabric pieces by hand sewing. To sew hems on an item made using textiles; to add design details.
Year 6 Personalised Curriculum		
Autumn	Spring	Summer
Burgers	Bird House Builders	Programming Pioneers (Vex Go)
<ul style="list-style-type: none"> To explore different types of burgers and their nutrition facts. To explore how to make burger patties. 	<ul style="list-style-type: none"> To investigate the purpose and appearance of bird houses. 	<ul style="list-style-type: none"> To explain how computers and computer programs are used in a variety of products.



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<ul style="list-style-type: none">• To explore sauces and side dishes for burgers.• To explore burger buns and their suitability.• To be able to plan and design a burger to make.• To be able to make a burger and evaluate the process.	<ul style="list-style-type: none">• To investigate the materials and features of bird houses and how to draw diagrams• To investigate and practise woodwork skills.• To be able to design a bird house for a specific bird• To be able to make a bird house by following a plan.• To evaluate, make predictions and promote a completed bird house.	<ul style="list-style-type: none">• To develop ideas for a product with an embedded computer system that controls it.• To develop, model and communicate ideas for an embedded system which monitors and controls a door, a room or both.• To develop ideas for a product and start to write programs to monitor and control them.• To model and communicate ideas, using either prototype models or computer-aided design.• To evaluate your design for a computer-controlled system and consider the views of others to improve your work.
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