



# Bury and Whitefield

## JEWISH PRIMARY SCHOOL

**DT**

### **Curriculum Overview**

**Our Curriculum Celebrates**

Resilience

Creativity

Critical Thinking

Curiosity

Challenge

Culture

<b>Cycle A</b>			
<b>Autumn</b>			
<b>EYFS</b>	<b>Year 1 &amp; Year 2</b>	<b>Year 3 &amp; Year 4</b>	<b>Year 5 &amp; Year 6</b>
Clay tea light holder <i>Structures</i>	Design and Make a moving character <i>Mechanisms</i>	Pneumatics <i>Mechanisms</i>	Automated Animals <i>Mechanisms</i>
<b>Spring</b>			
<b>EYFS</b>	<b>Year 1 &amp; Year 2</b>	<b>Year 3 &amp; Year 4</b>	<b>Year 5 &amp; Year 6</b>
Origami Dragons Junk Modelling - House for 3 little pigs <i>Structures</i>	Fabric Bunting <i>Textiles</i>	Let's Go Fly a Kite <i>Structures</i>	Global Food <i>Cooking and nutrition</i>
<b>Summer</b>			
<b>EYFS</b>	<b>Year 1 &amp; Year 2</b>	<b>Year 3 &amp; Year 4</b>	<b>Year 5 &amp; Year 6</b>
Models from recycled materials  Model pirate ship <i>Structures</i>	Dips and Dippers <i>Cooking and nutrition</i>	Edible Garden <i>Cooking and nutrition</i>	Monitoring and Control – Crumbl <i>Electrical Systems</i>

<b>Cycle B</b>			
<b>Autumn</b>			
<b>EYFS</b>	<b>Year 1 &amp; Year 2</b>	<b>Year 3 &amp; Year 4</b>	<b>Year 5 &amp; Year 6</b>
Split pin paper plate owls <i>Mechanisms</i>	Fruit Salads <i>Cooking and nutrition</i>	Healthy Diets <i>Cooking and nutrition</i>	Felt Phone Cases <i>Textiles</i>
<b>Spring</b>			
<b>EYFS</b>	<b>Year 1 &amp; Year 2</b>	<b>Year 3 &amp; Year 4</b>	<b>Year 5 &amp; Year 6</b>
Fruit Kebab <i>Cooking and nutrition</i>	Moving Pictures and Traditional Tales – Sliders and card structure <i>Structures</i>	Juggling Balls <i>Textiles</i>	Super Seasonal Cooking <i>Cooking and nutrition</i>
<b>Summer</b>			
<b>EYFS</b>	<b>Year 1 &amp; Year 2</b>	<b>Year 3 &amp; Year 4</b>	<b>Year 5 &amp; Year 6</b>
Junk model – Giants castle Willow Sculptor – Cherry Chung <i>Structures</i>	Design and make a Vehicle – Wheels and axels <i>Mechanisms</i>	Simple Circuits <i>Electrical Systems</i>	Framed Structures <i>Structures</i>

<b>Cycle A - Year 1 and 2</b>		
<b>Autumn</b>	<b>Spring</b>	<b>Summer</b>
Topic: Design and Make a moving character <i>Mechanisms</i>	Topic: Fabric Bunting <i>Textiles</i>	Topic: Dips and Dippers <i>Cooking and nutrition</i>
In this unit children will design and make a moving character using paper folds and split pins. They will explore which parts need to move and the different ways they can make this happen. They will evaluate their work against the design criteria.	In this unit children will design a piece of bunting and use simple stitching techniques to create their design. They will practise using a needle and learn how to attach the thread. They will also evaluate the effectiveness of their design and how easy it was to achieve.	In this unit, children will learn to prepare a range of vegetables and dips. They will taste and evaluate existing products and design a snack consisting of dips and dippers. They will also discuss where different vegetables come from.

Cycle A - Year 3 and 4		
Autumn	Spring	Summer
<b>Topic: Pneumatics</b> <i>Mechanisms</i>	<b>Topic: Let's Go Fly a Kite</b> <i>Structures</i>	<b>Topic: Edible Garden</b> <i>Cooking and nutrition</i>
<p>In this unit, children will evaluate an existing design and generate their own ideas to come up with a prototype. They will select from and use appropriate tools with some accuracy to cut and join materials and components such as tubing, syringes and balloons before evaluating their final design.</p>	<p>This unit gives children opportunities to develop their understanding of frame structures and how they can be strengthened and stiffened. Children will gain knowledge and understanding about the parts and shapes of kites. This will help them when designing and making their own kites. Finally, children will test and evaluate their kites against design criteria they have created.</p>	<p>This unit provides an opportunity for children to learn where and how a variety of ingredients are grown. Children will learn how care for plants so they yield produce that can be used in their cooking. They will learn how to cook with the ingredients they are growing; following recipes and using different kitchen equipment. They will also learn about the appropriate safety and hygiene rules.</p>

Cycle A - Year 5 and 6		
Autumn	Spring	Summer
<b>Topic: Automated Animals</b> <i>Mechanisms</i>	<b>Topic: Global Food</b> <i>Cooking and nutrition</i>	<b>Topic: Monitoring and Control – Crumbl</b> <i>Electrical Systems</i>
<p>This unit gives children opportunities to further develop their understanding of mechanical systems. They will learn about controlling movement with a cam mechanism, develop their designing skills and make a simple cam mechanism to formulate an understanding of how different shaped cams can be used to produce different movements. Children will also</p>	<p>This unit will give children the chance to discover the exciting and diverse choice of food available around the world. They will learn where in the world a variety of ingredients flourish and build on their understanding of the eatwell plate, placing different ingredients into the correct food groups. Children will then have the chance to learn some basic and advanced cooking</p>	<p>In this unit children will develop a design specification for a functional product that responds automatically to changes in the environment. They will select and assemble materials, and connect electrical components to produce a reliable, functional product. They will also create and modify a computer control</p>

extend their making skills by developing techniques in cutting, shaping and joining to combine components and by selecting tools and equipment to measure and cut wood and card accurately.	techniques, they will apply these skills when making some traditional dishes from different countries.	program to enable their electrical product to respond to changes in the environment.
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Cycle B - Year 1 and 2		
Autumn	Spring	Summer
Topic: Fruit Salad <i>Cooking and nutrition</i>	Topic: Moving Pictures – Traditional Tales – Sliders and card structure <i>Structures</i>	Topic: Design and Make a Vehicle <i>Mechanisms</i>
In this unit, children will learn to prepare a range of fruit by chopping and peeling. They will taste and evaluate existing products and design a fruit salad. They will also discuss where different fruits come from.	This unit gives children opportunities to develop their understanding of mechanisms. Children explore Traditional Tales and learn how sections of the stories can be made into a moving picture. Following instructions on how to make different types of mechanisms, such as levers, wheels and sliders, gives children experience and information to draw on when developing their own ideas. They will sketch a design based on their ideas then create a moving picture.	In this unit, children will explore and evaluate a range of toys with wheels. They will generate initial ideas and simple design criteria through talking and using own experiences. They will then select from and use a range of tools and equipment to perform practical tasks such as cutting and joining to allow movement and finishing before evaluating their final products.

Cycle B - Year 3 and 4		
Autumn	Spring	Summer
<b>Topic: Healthy Diets</b> <i>Cooking and nutrition</i>	<b>Topic: Juggling Balls</b> <i>Textiles</i>	<b>Topic: Simple Circuits</b> <i>Electrical Systems</i>
<p>In this unit children will generate and clarify ideas through discussion with peers and adults to develop design criteria including appearance, taste, texture and aroma for an appealing product for a particular user and purpose. They will plan the main stages of a recipe, listing ingredients, utensils and equipment and select from a range of ingredients to make appropriate food products before creating and evaluating their products.</p>	<p>This Juggling Balls unit will teach children how to make juggling balls. They will start by exploring and evaluating different juggling balls before being 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 and children will learn about decoration techniques before completing their juggling ball and evaluating it against design criteria.</p>	<p>In this unit children will revisit their scientific knowledge relating to circuits. They will show an understanding of the different components and create a labelled design showing how their circuit will look and work. When creating their circuit children will use electrical systems in their products, such as series circuits incorporating switches, bulbs and buzzers in their design before evaluating its effectiveness.</p>

Cycle B - Year 5 and 6		
Autumn	Spring	Summer
<b>Topic: Felt Phone Cases</b> <i>Textiles</i>	<b>Topic: Super Seasonal Cooking</b> <i>Cooking and nutrition</i>	<b>Topic: Framed Structures</b> <i>Structures</i>
<p>This Felt Phone Cases unit will teach children about 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. Children will learn how to make a paper</p>	<p>This Super Seasonal Cooking unit will teach children about the importance of buying seasonal food. It 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</p>	<p>In this unit children will investigate and evaluate a range of existing frame structures. They will carry out research into user needs and existing products before developing a simple design specification to guide the development of their ideas and products, taking account of constraints</p>

template and how to sew a running stitch, backstitch, whip stitch and blanket stitch. Finally, when they have made their felt phone case, children will evaluate its effectiveness against the design criteria.

sample some spring seasonal food before designing their own balanced seasonal meal. They will learn how to cook with the seasonal ingredients following recipes and using a wide range of preparation and cooking techniques before evaluating their. Finally, children will evaluate their product against their design criteria.

including time, resources and cost. They will competently select from and use appropriate tools to accurately measure, mark out, cut, shape and join construction materials to make frameworks before evaluating them against their design criteria.