

Year 6	National Curriculum	Skills	Key Questions	Suggested Learning	Vocabulary (Tier
	Objectives			Experiences	2/3)
Autumn  World at War: World War I and World War II and The Battle of Britain  Food Technology  Using war time rationing, design and make a meal for an afternoon tea dance.	Objectives  Understand and apply the principles of a healthy and varied diet.  Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.  Understand seasonality and know where and how a variety of ingredients are grown, reared, caught and processed.  use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups  select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing],	Use cooking tools safely and accurately.  Comparing what was done in WW2 to how things have changed and/or remained the same to the modern day.  How amounts of ingredients can or need to be changed depending on number of people attending.	Can you plan a meal for an afternoon tea dance using war time rationing?  What ingredients will be available to you?  How will you measure them out? What are the different types of equipment?  What units are you going to use?  How will you ensure you stay in your budget?  If you were going to expand your tea party and cook for 1,000/10,000/100,000 people, what would you have to do to your ingredients?	1). Remind children of previous learning. In Year 5 they made Islamic bread in their food topic. In Year 4, they made a chocolate bar in their food topic. What skills were important when making those products? What did you have to do before you could begin making your product? Explore what people ate for afternoon tea before the 2 <sup>nd</sup> world war and today. Look at what is on offer for afternoon tea today. How does it compare to pre-WW2? Do you understand the reasons why WW2 tea parties had the amounts they did? Link to rationing booklet.  2). Examine war time rationing booklet. Would making afternoon tea be difficult with these restrictions? How could you get creative with your designs and ideas? Work in groups to plan afternoon tea using only what was available through war time rationing. They need to plan the meal for xxx people and work out the amounts and costing. Give pupils a budget to try and work to. Use budget forms.	Tier 2 Restrictions Available modifications  Tier 3 Rationing Budget

Accurately select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities

investigate and analyse a range of existing products

evaluate their ideas and products against their own design criteria and consider the views of others to improve their work

- 3). Children draw images of what their food is going to look like when they have cooked it. Exploded diagrams should be used and children annotate the different ingredients that will be contained within the food where appropriate.
- Drawn an image of what their table will look like and where foods will be placed.
- 4). Imagine your tea party can be expanded or has to be decreased (link to Covid-19 restrictions) Children have to increase their ingredients multiplying by 10/100/1,000 and also decrease their ingredients dividing by 10/100/1,000. What would their recipes now look like? (link to maths objectives as they need to know how to multiply and divide by 10/100/1,000
- 5). Get the pupils to identify themselves the new skills they need to learn.
  Plan cooking skills lessons accordingly.
  Produce step by step plan of how they are going to make their meal (recipe) and the instruments they are also going to need. Identify roles and responsibilities in the group.
  Children should have finalised

recipe cards.

		6). Children need to create a menu. Make the cover really eyecatching and it should resemble this is for a celebration event. On the inside their different foods should be listed and additional information that makes it sound appetising and adds appropriate description.  7). Children to use their written version they created in their art books and then design one on the computer. Consider the font style.  8). Make meal for afternoon tea dance.  9). Invite parents to eat meal. Parents evaluate pupils work.	

# Spring and Summer

Birmingham:
Evolution and
development of
Birmingham
Legacies: Legacies
of eras and
significant
individuals

# Structures and Mechanisms

Build a model of the Birmingham library with wooden support structures, lights and motors Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups

Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computeraided design

Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately

Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities

Research electricity and the most effective ways it can be used.

How to use electricity wires in a safe environment for themselves and others.

Using electrical products in conjunction with others to create an effective and final product to a high standard.

Research how to use wood to support and stiffen structures and how this can apply to the product we are making.

Use glue guns to stick wood to stiffen structures.

Saw wood and cut cardboard to appropriate lengths.

Use saw and glue guns in a safe environment.

Compare wood joins and evaluate which is going to be the best/most appropriate.

Use what you have learnt about electricity to produce a scaled model.

How tall will your final product be? What units of measure are you going to use?

What will your 2d features be?

What will your 3d features be? How will you ensure they are effective in a 3d drawing/design?

How can you use wood, electric and a motor in conjunction to make a final product that looks good and works in conjunction with each other? 1). Show children a finished product of what they are going to make. Explain that there will be wood to stiffen/support their structure, lights used and a motor to make something move. The wood to support and motor will link to construction and mechanisms work done in Year5 when they made a crane and electricity using light in Year 4 when they made a light box. What skills were important when making those products? What did you have to do before you could begin making your product?

- 2). Research what Birmingham Library looks like and why it was designed that way. Teachers to create a comprehension for children to complete about the history of where it originally was and when it was re-built.
- 3). Children design what the front of the Birmingham library will look like. Give them freedom to design and choose the materials, ensuring they label them on the design. Children should be able to explain their choices of materials and why they think it is an appropriate choice.
- 4). Children will draw an exploded diagram of the Birmingham library. Again, give children the

Tier 2
Wire
Lighting
Modifications
Structure
Support
Motor

Tier 3
Current
Dimension
Block
Cube
Cuboid

bulbs, buzzers and

motors

Use spray paint safely. choice of what they think will be Investigate and analyse a range of existing the best materials/products to Research how motors use. This will clearly detail the products can be used to motor, wires and wood. Children Evaluate their ideas and move/turn part of a should label these and then be able to explain both in writing and products against their product. own design criteria and verbally where the wires have consider the views of How can a motor be stuck and why? How are the wires others to improve their used safely alongside being fixed down to the inside of work electrical wires, lights their product? Where the wood is and where wood has being used to support the Understand how key been installed in the structure? How is it supporting events and individuals in product? the structure? Where will the design and technology motor be positioned? Why? What have helped shape the Design, analyse and will it turn? evaluate where the world motor would be best 5). Show children the list of Apply their used and what part of materials they will use and ask understanding of how to the product would turn them to re-design their strengthen, stiffen and to give the most Birmingham library as reinforce more complex effective finish. appropriate. Tell children a maximum and minimum height structures and width of their library. Teachers can choose if the 2d Understand and use mechanical systems in design or the exploded diagram should be edited. Children should their products [for example, gears, pulleys, also consider how their shoe cams, levers and boxes will be stuck together. linkages] 6). Children begin to make their Understand and use product. Cut wood and using glue guns, electrical systems in their products [for stick the wood inside the shoe example, series circuits boxes to support the structure. incorporating switches, Stick the shoe boxes together

using glue guns.

Apply their understanding of computing to program, monitor and control their products		7). Make sure the wood has set and is fixed. Cover the boxes with paper. Using stencils, spray paint the Birmingham library with their desired colours and patterns.  8). Add the wires with the lights and ensure they are stuck down safely.  9). Include a motor with a moving part. Teachers to decide if this goes on the top or the front of the library. Ensure this is secured to the structure effectively and doesn't ruin or look out of place on the structure.	