



Learning objectives and skills

Advent		Lent		Pentecost	
Storybooks		American Food		Lighthouses, buildings and alarms	
<p>1. To investigate and evaluate products with lever and linkage systems.</p> <ul style="list-style-type: none"> Evaluate products and identify criteria that can be used for their own designs <p>2. To experiment with a range of techniques to create moving mechanisms. (Paper concertina)</p> <ul style="list-style-type: none"> Make labelled drawings from different views showing specific features. Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making, if the first attempts fail. Select appropriate tools and techniques for making their product Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques Join and combine materials and components accurately in temporary and permanent ways <p>3. To experiment with a range of techniques to create moving mechanisms. (Pop-out object & levers)</p> <ul style="list-style-type: none"> Make labelled drawings from different views showing specific features. Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making, if the first attempts fail Select appropriate tools and techniques for making their product Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques Join and combine materials and components accurately in temporary and permanent ways <p>4. To experiment with a range of techniques to create moving mechanisms. (Window flaps)</p> <ul style="list-style-type: none"> Make labelled drawings from different views showing specific features. Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making, if the first attempts fail. Select appropriate tools and techniques for making their product Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques 	<p>7. To be able to plan and design a storybook.</p> <ul style="list-style-type: none"> Generate ideas, considering the purposes for which they are designing <p>8. To be able to make a storybook with moving mechanisms using a design.</p> <ul style="list-style-type: none"> Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making, if the first attempts fail Select appropriate tools and techniques for making their product Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques Join and combine materials and components accurately in temporary and permanent ways <p>9. To be able to make a storybook with moving mechanisms using a design.</p> <ul style="list-style-type: none"> Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making, if the first attempts fail Select appropriate tools and techniques for making their product Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques Join and combine materials and components accurately in temporary and permanent ways <p>10. To be able to make a storybook with moving mechanisms using a design.</p> <ul style="list-style-type: none"> Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making, if the first attempts fail Select appropriate tools and techniques for making their product Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques Join and combine materials and components accurately in temporary and permanent ways <p>11. To be able to make a storybook with moving mechanisms using a design.</p> <ul style="list-style-type: none"> Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making, if the first attempts fail. 	<p>1. To understand how we work hygienically and safely with ingredients and apparatus.</p> <ul style="list-style-type: none"> Evaluate products and identify criteria that can be used for their own designs <p>2. To understand how we can evaluate food.</p> <ul style="list-style-type: none"> Evaluate products and identify criteria that can be used for their own designs <p>3. To find out about the diversity of foods grown in America's diverse climates, and develop cooking skills while following a recipe for a traditional American food.</p> <ul style="list-style-type: none"> Evaluate their work both during and at the end of the assignment Evaluate their products carrying out appropriate tests Select appropriate tools and techniques for making their product Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed. <p>4. To discover some ways in which indigenous Americans grew, caught, gathered, prepared, and cooked, food. (Vegetable jerky)</p> <ul style="list-style-type: none"> Make labelled drawings from different views showing specific features. Select appropriate tools and techniques for making their product Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed. <p>5. To be able to edit and improve an ancient recipe.</p> <ul style="list-style-type: none"> Generate ideas, considering the purposes for which they are designing Evaluate products and identify criteria that can be used for their own designs understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed. <p>6. To discover some ways in which indigenous Americans grew, caught, gathered, prepared, and cooked, food. (Own vegetable jerky)</p>	<p>7. To learn about the cultural significance of chillies in Mexican cooking, and about how American food is heavily influenced by food from other cultures. (Fajitas)</p> <ul style="list-style-type: none"> Generate ideas, considering the purposes for which they are designing Make labelled drawings from different views showing specific features Select appropriate tools and techniques for making their product Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques <p>8. To learn about the cultural significance of chillies in Mexican cooking, and about how American food is heavily influenced by food from other cultures. (Tex-Mex Taste Test!)</p> <ul style="list-style-type: none"> Evaluate products and identify criteria that can be used for their own designs prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques <p>9. To consider why certain foods are unhealthy if eaten regularly, and recognise the value of eating food together.</p> <ul style="list-style-type: none"> Generate ideas, considering the purposes for which they are designing understand and apply the principles of a healthy and varied diet <p>10. To understand how we can prepare food for a party, particularly one that is outside and where food is cooked on a barbecue, ensuring that we work safely and hygienically.</p> <ul style="list-style-type: none"> Generate ideas, considering the purposes for which they are designing prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques <p>11. To be able to prepare food for a party.</p> <ul style="list-style-type: none"> Generate ideas, considering the purposes for which they are designing Make labelled drawings from different views showing specific features <p>12. To host our own independence party.</p>	<p>1. To understand what a light house needs.</p> <ul style="list-style-type: none"> Make labelled drawings from different views showing specific features. <p>2. To create the circuit for my lighthouse.</p> <ul style="list-style-type: none"> Select appropriate tools and techniques for making their product Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques Join and combine materials and components accurately in temporary and permanent ways <p>3. To be able to assemble a model lighthouse.</p> <ul style="list-style-type: none"> Select appropriate tools and techniques for making their product Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques Join and combine materials and components accurately in temporary and permanent ways <p>4. To be able to evaluate my product and develop a design for a new innovative, functional and appealing product.</p> <ul style="list-style-type: none"> Evaluate their work both during and at the end of the assignment Evaluate their products carrying out appropriate tests Generate ideas, considering the purposes for which they are designing Make labelled drawings from different views showing specific features. <p>5. To be able to create a prototype design for my building.</p> <ul style="list-style-type: none"> Select appropriate tools and techniques for making their product Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques Join and combine materials and components accurately in temporary and permanent ways <p>6. To be able to create the circuit for my building.</p> <ul style="list-style-type: none"> Select appropriate tools and techniques for making their product Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques Join and combine materials and components accurately in temporary and permanent ways 	<p>7. To be able to build the frame of my building.</p> <ul style="list-style-type: none"> Select appropriate tools and techniques for making their product Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques Join and combine materials and components accurately in temporary and permanent ways <p>8. To investigate what alarm systems are used for and how different types of switches are activated.</p> <ul style="list-style-type: none"> Generate ideas, considering the purposes for which they are designing Make labelled drawings from different views showing specific features <p>9. To investigate how to create circuits with variety of different switches.</p> <ul style="list-style-type: none"> Generate ideas, considering the purposes for which they are designing. Make labelled drawings from different views showing specific features. <p>10. To be able to design an alarm system for a particular purpose.</p> <ul style="list-style-type: none"> Generate ideas, considering the purposes for which they are designing. Make labelled drawings from different views showing specific features. <p>11. To be able to create an alarm system based on a design.</p> <ul style="list-style-type: none"> Select appropriate tools and techniques for making their product Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques Join and combine materials and components accurately in temporary and permanent ways <p>12. To evaluate a finished product.</p> <ul style="list-style-type: none"> Evaluate their work both during and at the end of the assignment Evaluate their products carrying out appropriate tests

<ul style="list-style-type: none"> Join and combine materials and components accurately in temporary and permanent ways <p>5. To experiment with a range of techniques to create moving mechanisms. (Rotating wheels)</p> <ul style="list-style-type: none"> Make labelled drawings from different views showing specific features. Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making, if the first attempts fail. Select appropriate tools and techniques for making their product Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques Join and combine materials and components accurately in temporary and permanent ways <p>6. To explore and experiment with a range of different fonts and graphic techniques.</p> <ul style="list-style-type: none"> Evaluate products and identify criteria that can be used for their own designs 	<ul style="list-style-type: none"> Select appropriate tools and techniques for making their product Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques Join and combine materials and components accurately in temporary and permanent ways <p>12. To be able to evaluate a finished product</p> <ul style="list-style-type: none"> Evaluate their work both during and at the end of the assignment Evaluate their products carrying out appropriate tests 	<ul style="list-style-type: none"> Evaluate their work both during and at the end of the assignment Evaluate their products carrying out appropriate tests Select appropriate tools and techniques for making their product Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques 			
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#BTK and Links with other subjects

	<p>Story books for younger children. Stories of the Bible.</p> <p>Christmas decorations with Mrs. Watson</p> <ul style="list-style-type: none"> Sew using a range of different stitches, weave and knit Measure, tape or pin, cut and join fabric with some accuracy 	<p>Worldwide community.</p>	<p>Sharing food with family, friends and people who are less fortunate than ourselves.</p>	<p>School trip to Bekonscot Model Railway</p> <p>What are the functions of lighthouses? How can we be like a lighthouse?</p>	
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Key Vocabulary

<ul style="list-style-type: none"> Audience Bind Book cover Collage Concertina Entice Evaluate Experiment Finished product Fit the purpose Fonts Graphics Layout Lever Lever and Linkage systems 	<ul style="list-style-type: none"> Linkage Mechanisms Moving parts Pivot Pop-out object Rotate Rotating wheels Storybook Style Subject Techniques Window flaps Wording 	<ul style="list-style-type: none"> American Indian Tribes Associate British settlers Caught Climate Climate regions Colonise Convenience Crops Cultural significance Digesting Diverse Exploration Fast food Gathered Hygienically 	<ul style="list-style-type: none"> Independence Indigenous Ingredients Jerky Native Nutrition Pre-colonisation Prepared Preserve Prosperous Safely Soul foods Staple foods Street food Traditional Wheat 	<ul style="list-style-type: none"> Architects Conductors diagram Electrons Functional Habitable Insulators light bulb Lighthouse power source Stable Structure switch Waterproof 	<ul style="list-style-type: none"> A tilt switch Activation Alarm systems An on-off switch Effective Electrical circuits Purpose Push-to break switch Push-to-make switch Switches Design criteria Supports prototype
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Developing, planning and communicating ideas.

- Generate ideas, considering the purposes for which they are designing
- Make labelled drawings from different views showing specific features
- Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making, if the first attempts fail
- Evaluate products and identify criteria that can be used for their own designs

Working with tools, equipment, materials and components to make quality products (incl. food)

- Select appropriate tools and techniques for making their product
- Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques
- Join and combine materials and components accurately in temporary and permanent ways

Evaluating processes and products

- Evaluate their work both during and at the end of the assignment
- Evaluate their products carrying out appropriate tests

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- 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.