

Design Technology

Year 1 and 2

Autumn 2



Topic To make a Christmas card with a moving part																																																							
Rationale Creating a cross-curricular link between History (Toys) and Christianity. The children will design, make and evaluate a Christmas card with moving parts. The children will use construction skills that they will learn. The children will have the opportunity to observe, test and evaluate simple mechanisms, before designing and making their own Christmas card with moving parts to give to parents for Christmas. The children will evaluate their finished product against their own design criteria.																																																							
NC Objective <ul style="list-style-type: none"> • Explore and use mechanisms for example, levers, sliders, wheels and axels, in their products. • Build structures, exploring how they can be made stronger, stiffer, and more stable. • Explore and evaluate a range of existing products • Evaluate their ideas and products against design criteria 																																																							
Links to other Subject/Topics. History (toys) RE- Christianity (Christmas) English- Instructions																																																							
Inspiration for Aspiration Architect, Engineer, Toy Designer, Card Designer																																																							
Key Content <ul style="list-style-type: none"> • How can I create a sliding mechanism? • How can levers and pivots create movement? • How can I make a wheel mechanism? • Can I use a mechanism on a Christmas card? • What mechanisms will be best for my Christmas card? • How can I improve my design? 																																																							
Concepts <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #FFD700;">Design Technology</th> <th style="background-color: #D3D3D3;">1</th> <th style="background-color: #D3D3D3;">2</th> <th style="background-color: #D3D3D3;">3</th> <th style="background-color: #D3D3D3;">4</th> <th style="background-color: #D3D3D3;">5</th> <th style="background-color: #D3D3D3;">6</th> </tr> </thead> <tbody> <tr> <td style="background-color: #D3D3D3;">Design, Make, Evaluate</td> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td style="background-color: #D3D3D3;">Structures</td> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td style="background-color: #D3D3D3;">Mechanisms</td> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td style="background-color: #D3D3D3;">Electrical</td> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td style="background-color: #D3D3D3;">Textiles</td> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td style="background-color: #D3D3D3;">Food and Nutrition</td> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> </tbody> </table>							Design Technology	1	2	3	4	5	6	Design, Make, Evaluate							Structures							Mechanisms							Electrical							Textiles							Food and Nutrition						
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Skills FS2 Skills <ul style="list-style-type: none"> • Selects tools and techniques needed to shape, assemble and join materials • Beginning to learn how to use a range of tools 	Skills Year 1 Design: <ul style="list-style-type: none"> • Explain what my product is for, and how it will work • Use pictures and words to plan, and begin to use models • Design a product for myself following design criteria Make : <ul style="list-style-type: none"> • Explain what I'm making and why • Consider what I need to do next 			Skills Year 2 Design: <ul style="list-style-type: none"> • Explain what my product is for, and how it will work • Use pictures and words to plan, and begin to use models • Design a product for myself following design criteria Make : <ul style="list-style-type: none"> • Explain what I'm making and why • Consider what I need to do next 																																																			

	<ul style="list-style-type: none"> Select tools/equipment to cut, shape, join, finish, and explain choices Measure, mark out, cut and shape, with support Choose suitable materials and explain choices Try to use finishing techniques to make product look good <p>Evaluate:</p> <ul style="list-style-type: none"> Talk about my work, linking it to what I was asked to do Talk about existing products considering use, materials, how they work, audience, where they might be used Talk about existing products and things that other people have made Begin to talk about what could make product better 	<ul style="list-style-type: none"> Select tools/equipment to cut, shape, join, finish, and explain choices Measure, mark out, cut and shape, with support Choose suitable materials and explain choices Try to use finishing techniques to make product look good <p>Evaluate:</p> <ul style="list-style-type: none"> Talk about my work, linking it to what I was asked to do Talk about existing products considering use, materials, how they work, audience, where they might be used Talk about existing products and things that other people have made Begin to talk about what could make product better
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FS2 DT Vocabulary Cut Shape Push	Topic Specific Vocabulary Festival Celebrate	DT Y1 Vocabulary Plan Design Make Evaluate improve Tools Equipment Explain Wheels Levers Sliders Mechanisms observe	Topic Specific Vocabulary Christmas Christianity Celebration Past Toys	DT Y2 Vocabulary Plan Design Make Evaluate improve Tools Equipment Explain Wheels Levers Sliders Mechanisms Observe	Topic Specific Vocabulary Christmas Christianity Celebration Past Toys
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By the end of the topic children will: -

By the end of this topic the children will be able to use mechanisms to create a Christmas Card with a moving part.

Design:

- Explain what my product is for, and how it will work
- Use pictures and words to plan, and begin to use models
- Design a product for myself following design criteria

Make :

- Explain what I'm making and why
- Consider what I need to do next
- Select tools/equipment to cut, shape, join, finish, and explain choices
- Measure, mark out, cut and shape, with support
- Choose suitable materials and explain choices
- Try to use finishing techniques to make product look good
- Work in a safe manner

Evaluate:

- Talk about my work, linking it to what I was asked to do
- Talk about existing products considering use, materials, how they work, audience, where they might be used
- Talk about existing products and things that other people have made
- Begin to talk about what could make product better

