



## Year 1 Medium Term Planning for the Learning Challenge Curriculum

Term: Spring

DT Project: Creating a Moving Picture

<u>Previous Learning</u>	<u>New Knowledge /Consolidation</u>	<u>End of Project Outcome</u>	<u>Environmental Links</u>	<u>Key Inventors/People</u>	<u>Project Vocabulary</u>
Attaching and joining using glue and tape.  Arranging, measuring and sorting materials.  Cutting using scissors.	To use a pulley & lever mechanism to create a moving picture.	To create a 'pop up book' style card with a moving element.	N/A	Exploring and Comparing the pop up books in school by Robert Sabuda.  Discuss how they have been made.	Plan, choose, decide & design explore & compare evaluate improve attach & join move & pull

Section	Lesson	Key Skills	Learning Objective & Activity
Explore	1	<ul style="list-style-type: none"> <li>● Explain the purpose of a product, how it will work and how it will be suitable for the user.</li> <li>● Choose the best tools and materials.</li> <li>● Talk about existing products considering: use, materials, how they work, audience, where they might be used; express opinions, likes and dislikes.</li> <li>● Evaluate how good existing products are</li> <li>● Identify and name the mechanism being used (pulley and Lever).</li> </ul>	<p><b><u>To investigate and explore existing pop up books with pulley and lever mechanisms.</u></b></p> <p>Use PowerPoint presentation and youtube video demonstration on how pulleys and levers are made to explain the mechanism and understand how it works.</p> <p>Children then explore a range of existing pop up books that have pulley and lever mechanisms.</p> <p>Children take part in a class discussion based on their findings, opinions, likes and dislikes.</p>
Plan	1	<ul style="list-style-type: none"> <li>● <b>Come up with their own ideas</b> and plan what to do next.</li> </ul>	<p><b><u>Consider what materials can be used to create a pulley and a lever and create a plan to follow.</u></b></p> <p>What materials will they use? Card, paper, glue, tape etc.</p>

		<ul style="list-style-type: none"> <li>● <b>Explain what they want to do</b> and describe how they plan to do it.</li> <li>● Describe a design using pictures and words.</li> <li>● Design products following a design.</li> </ul>	<p>What shapes could we use for create the mechanism? Discuss the use of appropriate shapes ( square or rectangle).</p> <p>Explain how they feel their mechanism will move? (up and down, side to side)</p>
<b>Make</b>	<b>2&amp;3</b>	<ul style="list-style-type: none"> <li>● <b>Measure, mark out, cut and attach materials</b> with support.</li> <li>● Join materials and components together in different ways</li> <li>● Join materials in different ways</li> </ul>	<p><b><u>Use appropriate techniques to create a moving picture.</u></b></p> <p>Create a pulley and lever mechanism for a moving picture pop up card using:</p> <ul style="list-style-type: none"> <li>● Teamwork/ independent thinking</li> <li>● Communication</li> <li>● Resilience</li> </ul> <p>With support and measure the success of the product.</p>
<b>Evaluate</b>	<b>4</b>	<ul style="list-style-type: none"> <li>● Explain what they are making</li> <li>● Describe what went well, thinking about design criteria</li> <li>● Talk about what I would do differently if I were to do it again and why</li> </ul>	<p><b><u>Consider if their moving picture was a success/fit for purpose.</u></b></p> <p>Use evaluation worksheet to review the following (using text/tick boxes)</p> <p>Did your picture move? Yes/No</p> <p>Did you use a pulley &amp; lever? Yes/No</p> <p>How did your picture move? Side to side/ up and down</p> <p><b><u>Consider what went well and what could be done differently.</u></b></p> <p>Create a class mind map of what went well.</p> <p>Add text boxes in a different colour (green for WWW and red for EBI) showing improvements that could be made or things that could be done differently next time.</p>