

Y1 – Books with levers and sliders

<p>Inspiration Creativity -</p>	<p>Partnership with parents Community</p>	
<p>Key Questions</p>	<p>Key Concepts</p> <ul style="list-style-type: none"> - Mechanisms 	<p><i>Also covered in:</i></p> <ul style="list-style-type: none"> - Y4 – Cam mechanisms - Y5 – Squashed Tomato Challenge
<p>Design</p> <ul style="list-style-type: none"> - How do books use levers and sliders? - How does a slider work? - How does a simple lever work? 	<p>Skills</p> <ul style="list-style-type: none"> - When supported by a teacher, designs to meet a purpose are created - With the support of a teacher, materials are cut safely - When supported by a teacher, maths skills are sometimes used to help measure and mark to the nearest centimetre - During structured activities, a range of cutting and shaping techniques are used - During structured activities, a range of joining techniques are used - With structured activities, designs of others are evaluated to identify likes and dislikes - When prompted, basic improvements to existing designs are suggested 	<p>By the end of this unit, the children will be able to:</p> <ul style="list-style-type: none"> - Use a lever or slider in their design - Describe the movement of a lever and slider - Measure and cut with an appropriate degree of accuracy. - Evaluate what they like about their design and what they would improve.
<p>Make</p> <ul style="list-style-type: none"> - How can we use a slider or lever in our book? - How can we measure and cut accurately? 		
<p>Evaluate</p> <ul style="list-style-type: none"> - What do I like about my design? - What might I do differently next time? 		

<p>Knowledge</p> <ul style="list-style-type: none"> - Levers and sliders are used to make parts of a book move. - Levers allow a part to move up and down - Levers can also have a fixed pivot point which allow movement in an arch. - Sliders allow a part to move from side to side - It is important to measure and cut accurately.

<p>Topic Specific Vocabulary Lever, slider, pivot, plan, evaluate, accurately, measure, movement, direction</p>	<p>NC Subject content</p> <ul style="list-style-type: none"> - Design purposeful, functional, appealing products for themselves and other users based on design criteria - Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology - Select from and use a range of tools and equipment to perform practical tasks - Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics - Explore and evaluate a range of existing products. - Evaluate their idea and product against design criteria. - Explore and use mechanisms e.g. levers and sliders in their products.
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Subject Specific/Academic Vocabulary
This vocabulary should be explicitly taught in context. Other tier 2 words should also be explored as they are encountered.

Year 1	Year 2
Partner, individual, task, resource, final, create, available.	Focus, selection, construction, method, evaluation, required, achieve, purchase.

We are Product Designers/Being a Product Designer/I am a Product Designer
 Create a class book linked to Literacy including sliders and levers.