**Year 1 Design and Technology Curriculum – Autumn Term**

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| **Theme: Sliders and levers** |
| **Curriculum objectives** | **Vocabulary** | **Links across the curriculum** |
| **Investigate**.Explore a range of existing books and everyday products that use simple sliders and levers.  **Designing** • Generate ideas based on simple design criteria and their own experiences, explaining what they could make. • Develop, model and communicate their ideas through drawings and mock-ups with card and paper. **Making** • Plan by suggesting what to do next. • Select and use tools, explaining their choices, to cut, shape and join paper and card. • Use simple finishing techniques suitable for the product they are creating. **Evaluating** • Evaluate their product by discussing how well it works in relation to the purpose and the user and whether it meets design criteria. | **Keyword** | Definition  | **Keyword** | Definition  |  **Spoken language** – children listen and respond appropriately to adults. Ask relevant questions to extend their knowledge and understanding. Build technical and directional vocabulary. • **Mathematics –** describe position, direction and movement. Use appropriate standard and non-standard measures. |
| Slider | A lever that is moved horizontally or vertically to control a variable | Split pin | A pin to connect two pieces of card together |
| lever | A rigid bar resting on a pivot, used to move a heavy or firmly fixed load with one end when pressure is applied to the other: |  |  |
| Pivot | The central point, pin, or shaft on which a mechanism turns or oscillates. |  |  |
| Guide | A structure or marking which directs the motion or positioning of something: |  |  |
|  |  |  |  |
| **Prior knowledge:** *What specifically have pupils learned that is relevant to this unit that they are building upon?* | **Future knowledge:** *What specifically will pupils learn in the future that is relevant to this unit?* |
| Early experiences of working with paper and card to make simple flaps and hinges. • Experience of simple cutting, shaping and joining skills using scissors, glue, paper fasteners and masking tape. (Foundation stage) | Linkages and levers (Year 3) |
| **Lesson Sequence** | **Key Knowledge** | **Key Skills** |
| 1. To explore and evaluate a collection of books and everyday products that have moving parts, including those with levers and sliders.
 | * To develop vocabulary e.g. lever, pivot, slider, left, right, push, pull, up, down, forwards, backwards, in, out.
 | * Investigation and questioning skills
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| 1. To replicate making the slider and lever demonstrated to the children.
 | * To know how the slider and lever works.
 | * Construction/investigating skills
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| 1. To generate a simple design.
 | * To know how to add to images to the sliders or levers.
 | * Creative thinking.
* Drawing and labelling skills
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| 1. To make their slider/lever design.
 | * To know how to construct the lever/slider and hoe the images will move.
 | * Construction skills
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| 1. To evaluate the design
 | * To know how effective the product was against the original design criteria.
 | * Evaluation skills.
* What went well … Even better if
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| **Themes and links** |
| **Themes** | **Where these are covered:** |
| **Investigate** | Lesson 1 and 2 |
| **Design** | * Lesson 3
 |
| **Make**  | * Lesson 4
 |
| **Evaluate** | * Lesson 5. How effective is the product?
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