**St Mary’s C of E Primary School, Writhlington**

*‘Inspiring Learning Together’*

**Scheme of Work + Knowlegde Organiser**

**Key Vocabulary:**

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| **Spelling** | **Definition/Sentence** |
| **lever** | A long, sturdy body that rests on a support  |
| **linkage** | Designed to change the direction of force and movement  |
| **design criteria** | The goals that a project must achieve in order to be successful  |
| **mechanism**  | a device that transforms input forces and movement into a desired set of output forces and movement  |
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**Knowledge outcomes:**Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups

Generate, develop, model and communicate their ideas through discussion, annotated sketches

Understand and use mechanical systems in their products [levers and linkages]

Select from and use a wider range of tools and equipment to perform practical tasks

Select from and use a wider range of materials and components

Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work

**The Learning Journey:**

**Can I investigate different mechanical systems?**
Children will look at different mechanical systems to discuss the key parts and functions.

**Can I make mechanical systems which use levers and linkages?**Children will make their own mechanical systems following a set of instructions.

**Can I use sketches to develop and communicate ideas? - Design**Using a design brief, children will develop some of their own ideas.

**Can I use prototypes to develop my ideas? – Make**Children will develop a prototype moving carnival mask and evaluate against the design criteria.

**Can I select materials and use different techniques to create a moving carnival mask? – Make**Children will create their own moving carnival masks with mechanical systems. Children will also think about the different finishing techniques which they will use to improve their finished product.

**Can I evaluate my moving carnival mask? – Evaluate**Children will complete the final evaluation of their products, assessing whether the product meets the needs of the user and has achieved its purpose.

**Wider Curriculum**



**Carnival Characters – Moving Carnival Masks**