Knowledge Organiser Design & Technology Year 2 Autumn Mechanisms - Making a moving monster



Design criteria	A set of rules to help designers focus their ideas and test the success of them.	Design —→Make—→ Evaluate
Evaluation	When you look at the good and bad points about something, then think about how you could improve it.	 Knowledge and skills covered in this topic Children will know that mechanisms are a group of moving parts that work together to make a machine. Children will know that there is always an input and output motion. Children will understand that a lever is something that turns on a pivot. Children will know that linkage is a system of levers connected by pivots. Children will know that linkage uses levers and pivots to create motion. Children will know the four types of movement. Children will know how to make linkages using card for levers and split-pins for pivots.
Input	The energy that is used to start something working.	
Linkage	Lengths of material (for example, metal or card) that are joined together by pivots, so that the links can move as part of a mechanism.	
Mechanical	Something that can move because several pieces work together like a machine.	
Mechanism	A collection of parts that work together to create a movement, eg: a bicycle.	
Output	Output is the motion that happens as a result of starting the input.	
Pivot	The central point, pin, or shaft on which a mechanism turns or swings.	
Survey	To ask a group of people questions about something and to use their answers to make improvements.	
		Children will know which materials to use based on

Prior knowledge

Year 1:To understand sliders and mechanisms, knowing how to create sliders for a story book.





Oscillating motion Movement in a curve, back and forth.

Reciprocating motion Movement in a straight line back and forth, in any

- levers and pivots
- movement.
- ages using card for
- Children will know which materials to use based on their characteristics.
- Children will know how to evaluate their moving monster against their design criteria.



