

Year 3 / 4	Types of mechanical systems

Key Vocabulary		Types of Motion in Mechanical Systems		
mechanism/	techanical components which act together ystems to create a movement.	rotary motion	Turning round in a circle, e.g. a wheel.	
mechanical		linear motion	Moving in a straight line, e.g. paper trimmer.	
systems		reciprocating	Moving forwards and backwards in a straight line, e.g. cutting	
motion		motion	with a saw.	
		oscillating	Swinging from side to side in an arc, e.g. a pendulum in a clock.	
pivot	To turn on a central point.	motion		

The Design Process								
Design Brief	Design Criteria	Generating Ideas	Prototype	Make the Product	Evaluation			
A planning document that explains <u>what</u> the project is, <u>how</u> it will be achieved and the <u>time frame</u> that it needs to be made in.	Tells you what a product must do to be successful.	Exploring different products and thinking about how they could be adapted. Creating an annotated sketch of your idea.	The first example of what the real thing will look like. It is used for testing, development and evaluation.	Using the annotated sketches and prototypes to help create your product.	Checking that the product meets the design criteria and has achieved its purpose.			
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DT Knowledge Organiser



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