



DT	Year 5
Focus: Pneumatic systems and mechanical control	
Age related DT vocabulary	

Improvement - To make something better	Specification - A description of work to be done or materials to be used	Control - The power or authority to control someone or something	Pneumatic - Tools and appliances driven by compressed air	Diagram - Drawing, image or sketch that helps the consumer visualise the product
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<p>Key knowledge</p> <p><u>Investigate and evaluate</u></p> <p>Examples of pneumatic systems: arm bands, recorder, beach ball, pump</p> <p><u>Focused task</u></p> <p>Pneumatic systems use air pressure to make things move or work properly</p> <p><u>Design and make product</u></p> <p>Specification list: must have a moving part, must be a monster, must use a pneumatic system</p> <p>A cross-sectional diagram shows the inside of the object as well as the outside as if it has a cut straight through it</p> <p><u>Evaluating</u></p> <p>Pneumatics was discovered in the 17th Century by a German physicist engineer named Otto</p> <p>He experimented with the idea of compressing air and invented the first air pump</p>

DT	Carlton Assessment Grid		
	Pupil Reflection		Teacher Assessment
Success Criteria	Before	After	
I can investigate and analyse a range of existing pneumatic systems	Before <input type="checkbox"/>	After <input type="checkbox"/>	
I can understand a pneumatic system and construct a simple version to complete tasks	Before <input type="checkbox"/>	After <input type="checkbox"/>	
I can generate, develop and model a cross-sectional diagram of my final design.	Before <input type="checkbox"/>	After <input type="checkbox"/>	
I can incorporate a pneumatic system into a product while following a specification	Before <input type="checkbox"/>	After <input type="checkbox"/>	
I can evaluate my product against my own design criteria	Before <input type="checkbox"/>	After <input type="checkbox"/>	