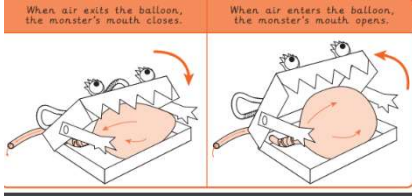




Subject: DT		Year group: 3 Term: Spring		Title: Mechanisms - Pneumatic Toys													
What should I already know? • Exploring simple mechanisms, such as sliders and levers, and simple structures. • How materials can be joined to allow movement. • How to Join and combine materials using simple tools and techniques.		Facts I will learn: • That pneumatic systems force air over a distance to create movement. • That mechanical systems have an input, process and output. • To know that all toys have a design brief and purpose. • How to put all the parts of a system together so that they move.		Key questions: • What is a pneumatic system? • How do mechanisms work? • What do we need to consider when we are designing products? • How can I use my ideas and my plan to make a moving toy? 													
Key Skills • Using a range of tools, materials and components. • Measuring, marking out, cutting and shaping materials and components with some accuracy. • Assembling, joining and combining materials and components with some degree of accuracy. • Applying a range of finishing techniques, including those from art and design. • Making Pneumatic systems and using them in a product.		Experiences that school will provide Experiences looking at and using pneumatic toys. Looking at different mechanisms. Designing and making pneumatic toys. 		<table><tr><th>Key vocab</th><th>Definition</th></tr><tr><td>pneumatic system</td><td>A mechanism that runs on air or compressed gas.</td></tr><tr><td>mechanism</td><td>The parts of an object that move together as part of a machine.</td></tr><tr><td>motion</td><td>The movement an object makes when controlled by an input or output.</td></tr><tr><td>function</td><td>How something works.</td></tr><tr><td>output</td><td>The motion that happens as a result of starting the input.</td></tr></table>		Key vocab	Definition	pneumatic system	A mechanism that runs on air or compressed gas.	mechanism	The parts of an object that move together as part of a machine.	motion	The movement an object makes when controlled by an input or output.	function	How something works.	output	The motion that happens as a result of starting the input.
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Web links https://www.youtube.com/watch?v=e5itFRfC3do (What does pneumatics mean?)	Experiences that could be provided at home Playing with pneumatic toys.	<table><tr><td>input</td><td>The motion used to start a mechanism.</td></tr><tr><td colspan="2"></td></tr></table>	input	The motion used to start a mechanism.		
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