

<b>D.T</b>	<b>Year 4</b>
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**Focus: Pneumatic systems and mechanical control (construction)- Pneumatic Monsters**

**Age related DT vocabulary**

<b>Architect</b> a person who is qualified to design buildings and to plan and supervise their construction	<b>Technique</b> a way of carrying out a particular task	<b>Temporary fixing</b> A way of joining materials to hold them until a permanent fixing is applied	<b>Pneumatic</b> containing or operated by air or gas under pressure
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<b>Key Knowledge</b>
<ul style="list-style-type: none"> <li>⇒ Tools– we will use scissors, split pins, balloons, cardboard and PVA glue to create a product that moves using pneumatics</li> <li>⇒ Bike pumps, syringes and blood pressure gauges are all examples of basic pneumatics</li> <li>⇒ Levers, pulleys, wheels and axles are all examples of basic mechanical controls</li> <li>⇒ We can use temporary fixings to hold the product together until we are ready to join the materials permanently</li> <li>⇒ We can evaluate and learn from existing products</li> </ul>

Carlton Assessment Grid			
Success Criteria	Pupil Reflection		Teacher Assessment
	Before	After	
I can investigate a range of existing pneumatic structures and mechanical controls	<input type="checkbox"/>	<input type="checkbox"/>	
I can practise constructing and reinforcing mechanical structures with a pneumatic element	<input type="checkbox"/>	<input type="checkbox"/>	
I can design a pneumatic system with mechanical controls	<input type="checkbox"/>	<input type="checkbox"/>	
I can use scissors, split pins and PVA glue to make a pneumatic system with mechanical controls	<input type="checkbox"/>	<input type="checkbox"/>	
I understand how to strengthen and stiffen my product	<input type="checkbox"/>	<input type="checkbox"/>	
I can evaluate my product	<input type="checkbox"/>	<input type="checkbox"/>	