



What I already know...

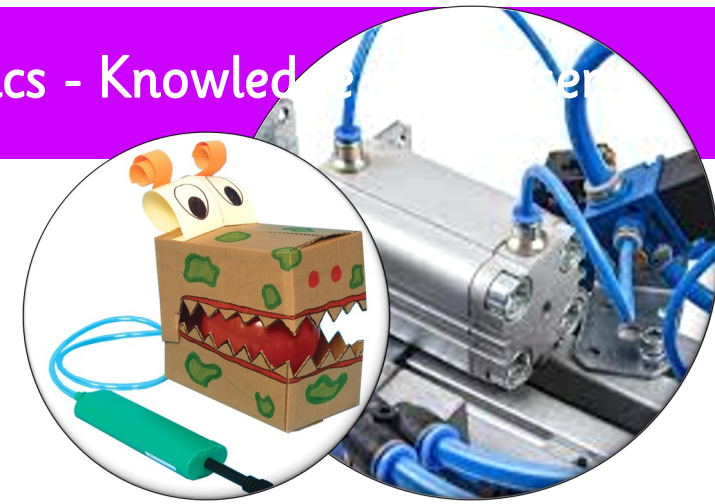
- How to create a design criteria.
- How to use simple mechanisms such as sliders and levers.
- How to use annotated sketches to show my ideas.
- How to evaluate a product against a design criteria.

Key Vocabulary

components	A part of a larger whole
syringe	A tube with a nozzle and piston for sucking in and blowing out air or water.
Pneumatic system	A mechanism that uses compressed air to do move components.
Input movement	The initial movement which causes other things to happen.
Output movement	The movement that happens as a result of the input movement

What I will learn...

- How to construct a simple pneumatic system using a balloon and plastic tubing
- To understand how pneumatics helps things to move.
- To draw simple pneumatic systems
- To create a design brief .
- To use annotated sketches to communicate their ideas.
- To begin to suggest how they will make their product.
- To evaluate their own product against a design criteria.



Making a difference at The Merton

Children continue to consider how machines help us and start to think about how more complex machines work.

They will develop a greater understanding of the role of designers and engineers and the careers that are associated with these skills.

Making a difference at home

Can you find out more about machines? Maybe try watching 'Grace's Amazing Machines' and see whether you spot any machines that use pneumatics?

Have you got any broken machines at home that you could take to pieces and look at how they work? (Check with an adult that you are allowed and that it is safe to do this first)