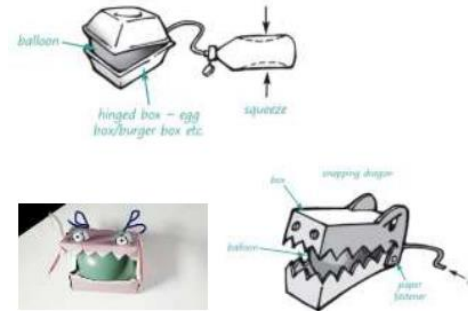


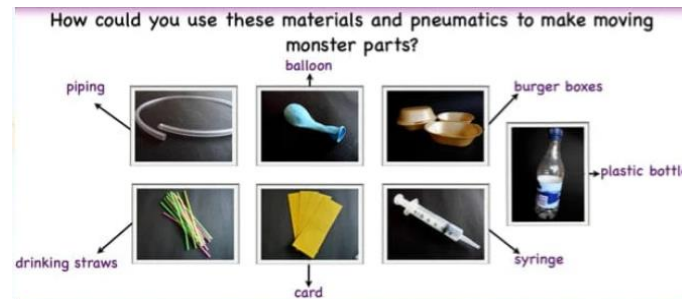
Key Vocabulary

A pneumatic system	a system that uses compressed air to do work
Compressed	flattened by pressure; squeezed or pressed together
Valve	Device for controlling the flow of fluid or air through a passage such as a pipe or duct
Mechanical-	Operated by a machine or machinery
Design brief	A set of instructions given for a designer to follow to create
Testing	Enabling a product to be tried and refined to ensure it meets its designed function
Hydraulic	A system that works using liquids (water).
Pressure	The force used on an object or surface.
Inflate	Fill something with air or a gas to make it swell up
Deflate	Remove the pressurised air to allow an object like a balloon to shrink.

Mechanical Systems- Pneumatics Moving Monsters



How does a pneumatic system make something move?



Key/Interesting facts:

- *The word Pneumatics comes from the Greek word Pneumatikos which means wind or breath.
- *Pneumatics have been used for thousands of years but really took off in the late 18th century because of the invention of steam trains which used pneumatic systems.
- *Pneumatics systems use air pressure to create mechanical motion (make machines move)
- *Air pressure in a pneumatic system acts like a spring, storing energy until it's released
- *Pneumatic systems are more powerful than mechanical motors with the same weight