

D&T is...
'Something for
Somebody for
Some purpose'



Year 4. Knowledge Organiser. Moving Monsters

A pneumatic system is a system that uses compressed air to do work.
They capture air, transport it around a circuit, and accomplish designated tasks with the generated energy.

OUR TASK:

Design and make a monster with moving parts controlled by pneumatic systems.

Pneumatic Systems

Pneumatic systems use air to make things move.

Pneumatic Systems

When you compress or squeeze air out of a container like a bottle it will push the air to fill another container like a balloon. The balloon will inflate. If you release the pressure it will deflate.

Air Can Change the Shape of Things

Air can change the shape of things.
When air is blown into a balloon, ball, or a tyre, it grows bigger. This is because air fills up the space inside the balloon, ball, or tyre and changes their shapes.

A deflated' balloon A boy blowing air into a balloon.

Vocabulary	
Input	What goes into the system.
Output	What comes out of the system.
Pressure	The force used on a system.
Inflate	Fill something with air or gas to make it swell up.
Deflate	To remove the air to allow the object to shrink.
System	A set of related parts used to create an outcome.
Syringe	A tube with a nozzle and a plunger for sucking and blowing air or liquids.

