

## Year 3 Design and Technology: Pneumatic Mechanisms

## How can we use air power to make an object move?

## Prior Learning

- I have learned how some mechanisms work, such as levers and sliders.
- I have learned how some materials can be joined together to create movement.
- I have used simple tools and techniques to join materials.

## Sticky Knowledge

- I will investigate products that use pneumatic mechanisms and understand how they work.
- I can design my own product using a pneumatic mechanism, focusing on the needs of the user and the purpose of the product.
- I can communicate my ideas through annotated sketches and prototypes.
- I know the stages need to make my product, using tools accurately to cut and join components.
- I can evaluate my product when I design and make, thinking about the needs of the user.

	Vocabulary
*User	The person or people who will use the product.
*Purpose	What the product is used for.
*Function	What the product should be able to do to work properly.
*Design	A plan or idea of what the product will be like and how it will function.
Pneumatic	A system that works using gases (air).
Hydraulic	A system that works using liquids (water).
Input	What goes into a system.
Output	What comes out of a system.
Compressed	Something that is squashed, such as air in a tube.
Inflate	To fill something with air or a gas to make it swell up.
Deflate	To remove the pressurised air to allow an object like a balloon to shrink.
Pivot	A point about which a lever turns.
*Lever	A beam which turns about a point.
*Evaluate	Discussing strengths and weaknesses of a product and identifying ways it could be improved.







