



Design Technology, Mechanisms (pneumatics), Y3 and Y4, Cycle B, Spring

Key Vocabulary

Pneumatic	a system that works using gases (air).
Syringe	a tube with a nozzle and plunger for sucking and blowing air or liquids.
Plunger	a part of a device or mechanism that works with a plunging or thrusting movement.
Compressed	something that is squashed, such as air in a tube.
Pressure	the force used on an object or surface.

Key Skills

Generate realistic ideas focusing on the needs of the user and purpose of the product.

Develop ideas through the analysis of existing products and use annotated sketches and prototypes to model and communicate ideas.

Order the main stages of making.

Select and use appropriate tools to measure, mark out, cut, score, shape and assemble with some accuracy.

Explain our choice of materials according to functional properties and aesthetic qualities.

Sticky Knowledge

That successful design is rooted in the needs of the user.

Pneumatics is a system powered by air.

Successful pneumatics systems need to be strong enough to move items.

Analysing existing products best supports generating ideas.

Choice of materials impacts on functional properties and aesthetic qualities.

Key

Reading

