

Subject Specific Vocabulary



Year 3 & 4 Autumn Cycle B Design and Technology Mechanisms Pneumatics Concept: Mechanisms

Mechanism	A system of parts working together in a machine.
System	A set of things working together.

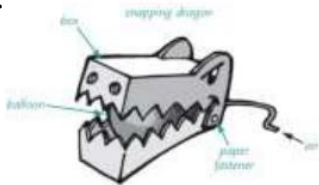


A pneumatic system	A system that uses pneumatic air to do the work.
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Compressed	Flattened by pressure. Squeezed or pressed together.
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Deflate	Remove the pressured air to allow an object like a balloon to shrink.
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Inflate	Fill something with air or gas to fill up.
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Input	What goes into a system.
Output	What comes out of a system.

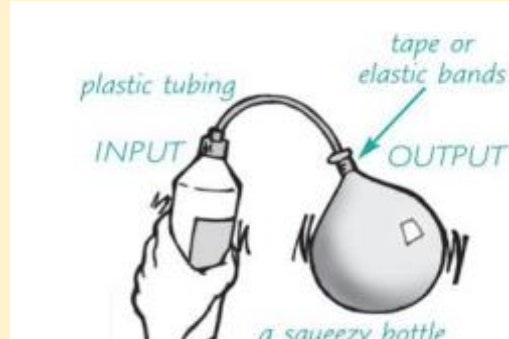
Knowledge

Everyday objects that use air include inflatable toys, whistles, foot pumps, and party blowers
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Pneumatic systems use air pressure to create mechanical movement.

<ul style="list-style-type: none"> "Input" is the air pressure, and "output" is the resulting movement or action.
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Skills

<u>Design:</u> Generate realistic and appropriate ideas and own design criteria through discussion and use annotated sketches and prototypes to develop, model and communicate ideas
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<u>Make:</u> Order the main stages of making.

<u>Make:</u> Select from and use appropriate tools with some accuracy to cut and join materials and components such as tubing, syringes and balloons.

<u>Evaluate:</u> Investigate and analyse books, videos and products with pneumatic mechanisms.
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<u>Evaluate:</u> Evaluate their own products and ideas against criteria and user needs, as they
