Year 3- DT Knowledge Organiser Mechanical Systems-Preumatic Toys

Preumatic Toys

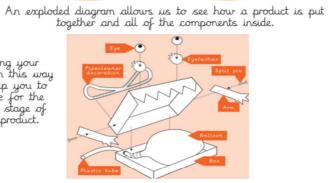
A pneumatic system is a mechanism that runs on air.





Exploded Diagram

Drawing your design in this way will help you to prepare for the making stage of your product.





Remember to hold your mechanism in place to check it still works when inside your toy.





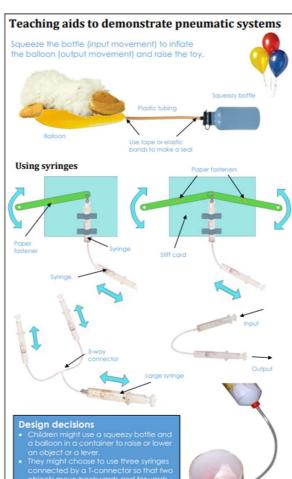
You will need::



Using your initial design add the finishing touches to your toy.

Remember to think about colours, and shapes to bring your toy to life!





Glossary

- Compressed something that is squashed, such as air in a tube.
- Input what goes into a system.
- Output what comes out of a system.
- Pivot a point about which a lever turns.
- Lever a beam which turns about a point.
- Pneumatic a system that works using gases (air).
- 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.
- Syringe a tube with a nozzle and plunger for sucking and blowing air or liquids.
- System a set of related parts or components used to create an outcome. Systems have an input, process and an output. In a pneumatic system, the 'input movement' is where the user pushes or pulls a syringe or pump. The 'output movement' is where the object at the end of the tube moves.