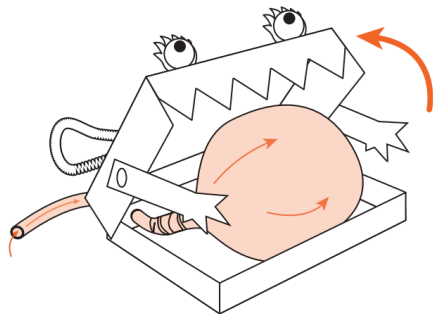
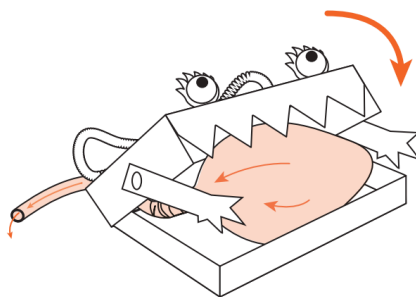




## LKS2 – Pneumatic toys

When air exits the balloon, the monster's mouth closes.

When air enters the balloon, the monster's mouth opens.



### Key Vocabulary

Pneumatic system	A mechanism that runs on air or compressed gas.
Mechanism	The parts of an object that move together as part of a machine.
Function	How something works.
Input	The motions used to start a mechanism.
Output	The motion that happens as a result of starting the input.
Motion	The movement an object makes when controlled by an input and an output.
Net	A 2D flat shape, that can become a 3D shape once assembled.

### What I need to know:

- Pneumatic systems force air over a distance to create movement.
- Hydraulic systems force water over a distance to create movement.
- Air or water trapped inside of something can have a strong force.
- There is a lot of energy in moving air and water.
- Mechanics are a system of parts that work together to create motion.
- Pneumatic systems can be used as a part of a mechanism.
- Pneumatic systems are used in a range of everyday objects such as drills and breaks.
- Syringes and balloons can be used to create different types of pneumatic systems.
- The first use of a form of pneumatic technology dates back many thousands of years.
- A Greek mathematician called Hero of Alexandria wrote in the first century about how he used wind to generate power and transport objects.
- In the 1600s German physicist Otto von Guericke first invented a vacuum pump that utilized air pressure.
- Thumbnail sketches are a quick drawing showing the main shapes, details and features of a product.
- Exploded diagrams are a technical drawing of a product with the components spread out.