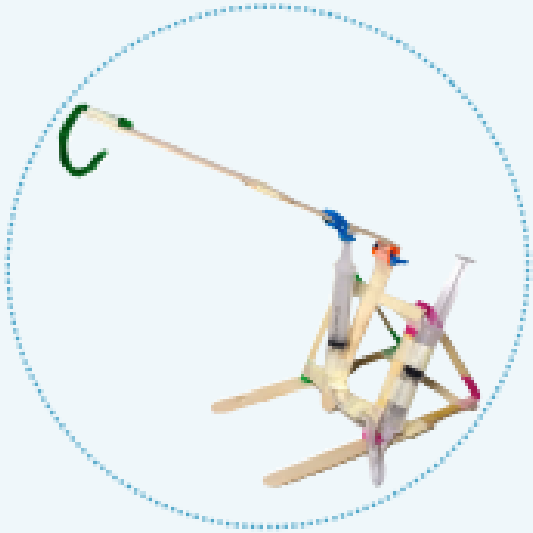
DT - Year 5 - 2.5 Pneumatics – Mechanisms: Hydraulic lifting device.

What should I already know?

- Air can be compressed and stored to help drive/power systems.
- Triangle frames are the most rigid/strongest frames.

Example of a Pneumatic System



Key Vocabulary

Pneumatic	A system that is operated by air or compressed gas
Hydraulic	A system that works using a liquid. Usually in a compressed space.
Compressed	Flattened by pressure. Something that is squeezed or pressed tightly
Piston	A disc that moves back and forth in a hollow cylinder
Reciprocating	Moving back and forth in a straight line
Product	Something that has been created or made
Purpose	The reason for which something is made
Inspiration	Where you got your ideas from
User	The person for whom the product is designed
Component	A part of a larger whole (for example a part of a machine)
Fluency	If you are fluent in something, you do it effortlessly.

Facts about Pneumatic Systems

- Pneumatic systems are usually used for power tools.
- Dentists use pneumatics to operate their drills!
- These systems are used where electric motors cannot be used such as deep down in mine shafts – due to safety.