

Suggested prior learning [Mechanisms: Making a moving monster](#)

Intended outcome of the unit

Pupils who are **secure** will be able to:

- Draw accurate diagrams with correct labels, arrows and explanations.
- Correctly identify definitions for key terms.
- Identify five appropriate design criteria.
- Communicate two ideas using thumbnail sketches.
- Communicate and develop one idea using an exploded diagram.
- Select appropriate equipment and materials to build a working pneumatic system.
- Assemble their pneumatic system within the housing to create the desired motion.
- Create a finished pneumatic toy that fulfills the design brief.

Key Vocab

mechanism
lever
pivot
linkage system
pneumatic system
input
output

component
thumbnail sketch
research
adapt
properties
reinforce
motion

Unit specific links:

[Knowledge organiser: DT - Y3 Pneumatic toys](#)

Week 1

[Lesson 1: Exploring pneumatics](#)

Week 2

[Lesson 2: Designing a pneumatic toy](#)

Week 3

[Lesson 3: Making pneumatic toys](#)

Week 4

[Lesson 4: Decorating and assembling my toy](#)

Suggested Next Steps

[Mechanical systems: Making a slingshot car](#)