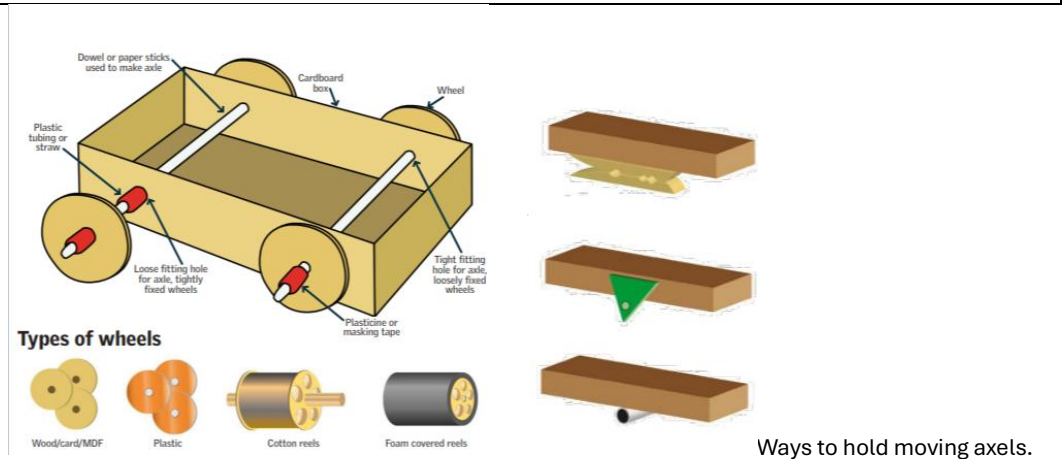
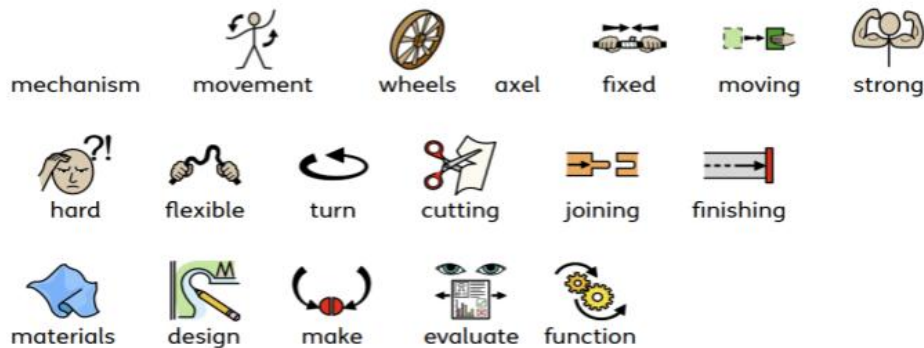


# DT Knowledge Organiser – Wheels and Axels – Spring 2 – Year 1 and 2

Year 1	Year 2
<p><b>I CAN</b> share my ideas through talk and drawings for a product that moves.</p> <p><b>I CAN</b> select and use basic tools and materials to cut and join parts to make a moving model safely.</p> <p><b>I CAN</b> explore and talk about everyday products that have wheels and axles.</p> <p><b>I CAN</b> understand that wheels and axles help things to move.</p>	<p><b>I CAN</b> develop and communicate my ideas through labelled drawings and simple mock-ups that show how my product will move.</p> <p><b>I CAN</b> select from and use a range of tools and equipment to cut, shape, join, and finish materials accurately to allow movement (e.g. wheels and axles).</p> <p><b>I CAN</b> explore and evaluate a range of products with wheels and axles and say what works well and what could be improved.</p> <p><b>I CAN</b> explain how wheels and axles work together to make something move.</p>

## Unit Vocabulary



## Wheels and Axles in the real world



## Glossary

- **Axle** – a rod on which one or more wheels can rotate, either freely or be fixed to and turn with the axle.
- **Axle holder** – the component through which an axle fits and rotates.
- **Chassis** – the frame or base on which a vehicle is built.
- **Friction** – resistance which is encountered when two things rub together.
- **Dowel** – wooden rods used for making axles to hold wheels.

## What is a wheel and axle mechanism?

A wheel and axle mechanism is a simple device you make when you connect one or more wheels to an axle.

They are used to help things move.

A wheel is a round, flat object made of a hard material.

An axle is a rod that passes through the centre of the wheel.