



# Y2 Design and Technology Knowledge Organiser – Mechanisms



## Learning Objectives:

- To know what wheels, axles and axle holders are.
- To know simple commercial products that use wheels and axels to move.
- To know the difference between fixed and free moving axels.
- To know simple methods to fix wheels and axels to a product
- Make simple drawings and label parts.
- Identify a purpose for what they intend to design and make.
- Assemble, join and combine materials in order to make a product
- With teacher guidance, use simple finishing techniques to improve the appearance of their product
- Evaluate products after making, identifying strengths and weaknesses and identifying what they have learned that they will use in future work

## Vocabulary:

Tier 2	
joining	design
make	cutting
evaluate	fixed
free	product
Tier 3	
axle	axle-holder
dowel	wheel
body	cab
hacksaw	vice

## Key Knowledge:



Wheel



Axle

Wheels and axles can be found in many commercial products including:



bicycles



ferris wheels



electric fans



winches

Fixed axles are not steerable



Free-moving axles are steerable



## Ways to fix wheels

