



# Mechanisms

Year 3 Summer Term

## Design Technology

### What I already know?

- I have designed a purposeful and functional product using a wheel and axel.
- I have designed a purposeful and functional product using a lever construction.

### Vocabulary

Pulley	A grooved wheel over which a drive belt can run
Pulley system	A wheel on an axle that is designed to support movement and change of direction of a cable or belt.
Axle	A rod or spindle passing through the centre of a wheel
Mechanism	A system of parts working together in a machine
Belt	A mechanism in which power is made by the movement of a continuous belt
Lever	A rigid bar resting on a pivot, used to move a heavy or firmly fixed load
Construction	The action of building something, typically a large structure.

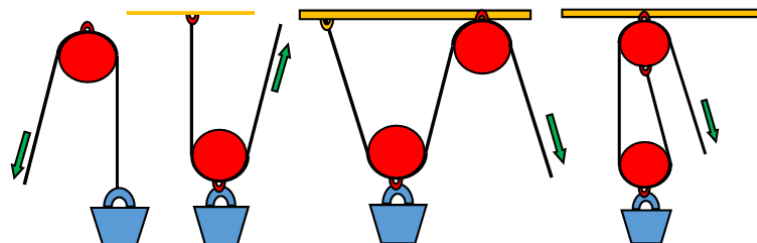
### Key Knowledge

I will create a pulley system to create a moving mechanism.

I will use my skills from Year 3 to create a lever for my pulley system.

I will evaluate the purposefulness of my pulley system.

## Types of Pulleys



**Fixed**

**Moveable**

**Compound**

**Block & Tackle**

### Connecting Concepts

**Technical Knowledge**



*I will create a pulley system using a lever*

**Practical Knowledge**



*I will use my prior learning to create a lever for my pulley system*