

**Mechanical Devices** - parts that move when it is working.



**Levers** - help provide mechanical advantage.

There are three elements at work: the effort, the load and the position of the fulcrum

**First Order Levers (Class 1)**

Examples: weighing scales, see saw, scissors, hammer pulling a nail



**Second Order Levers (Class 2)**

Examples: nut cracker, car door, wheel barrow, bottle opener



**Third Order Levers (Class 3)**

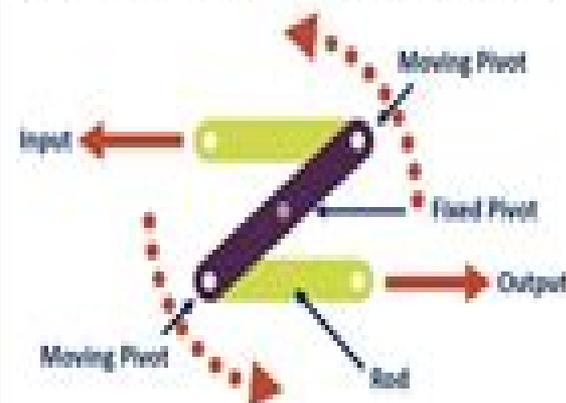
Examples: tongs, tweezers, fishing rod, stapler, sweeping with a broom



**Linkages** - are mechanisms that use rigid parts to:

- Change the magnitude of a force
- Change the direction of a force
- Transform into a different motion

A linkage is a mechanism made by connecting together levers. Consisting of a system of rods connected by pivots.



**Types of Linkages**

**Bell Crank Linkage**



Input direction is converted through 90° horizontal motion to vertical



Product Example: steering on bicycle

**Crank and Slider**



Converts rotary motion into reciprocating motion and vice versa.

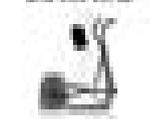


Product Example: Engine pistons

**Treadle Linkage**



Converts rotary motion into oscillating motion and vice versa.



Product Example: Elliptical trainer

**Gears** - cog wheels are meshed to create gear trains.

- A single gear train has a drive cog which rotates the 'driven gear'
- Gear ratios can be worked out by comparing the number of teeth



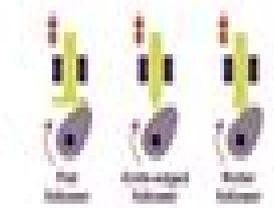
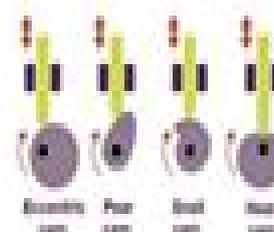
- An idler gear ensures that the direction of the drive gear and the driven gear are the same.
- The idler gear sits between the two gears and transfers the drive

**Pulleys and Belts** - drive belts are used to transfer drive from one pulley to another.



Pulleys reduce the effort needed to lift.

**Rotary Systems (Cams)**



# Essentials Of Gcse Design Technology

**E Durkheim**



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