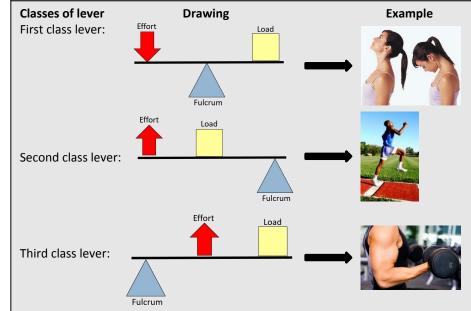
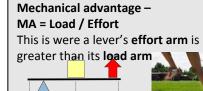
## GCSE Physical Education – Movement analysis

**Levers** – a rigid bar that moves around a pivot point with force applied to it.

Fulcrum (F)	Effort (E)	Load (L)
A fixed pivot point	The source of energy that will be applied	The weight/resistance to be moved
	<b>↓</b>	



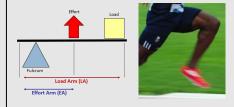


Effort Arm (EA)

Large loads can be moved with limited effort.

## Mechanical disadvantage

This is were a lever's **load arm** is longer than its **effort arm**.



**Planes** – imagery lines that divide the body into two.

Frontal plane	Transverse plane	Sagittal plane
A vertical plane but this divides the body into front and back e.g. jumping jacks	A horizontal plane that divides the body into <b>upper</b> and <b>lower</b> halves e.g. bowling in cricket	A vertical plane that divides the body into <b>right</b> and <b>left</b> sides e.g. kicking, running

**Axes** – imagery lines that the whole body turns around.

Frontal axis	Longitudinal axis	Transverse axis
Runs through the body horizontally from the back to front.	Runs through the body vertically from the top to bottom.	Runs through the body horizontally from the left to right.
Example: Cartwheel	Example: Full twist	Example: Somersault
3	t e	

GCSE Physical Education – Movement analysis		
Term	Definition/notes/concept	
Keywords:		

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