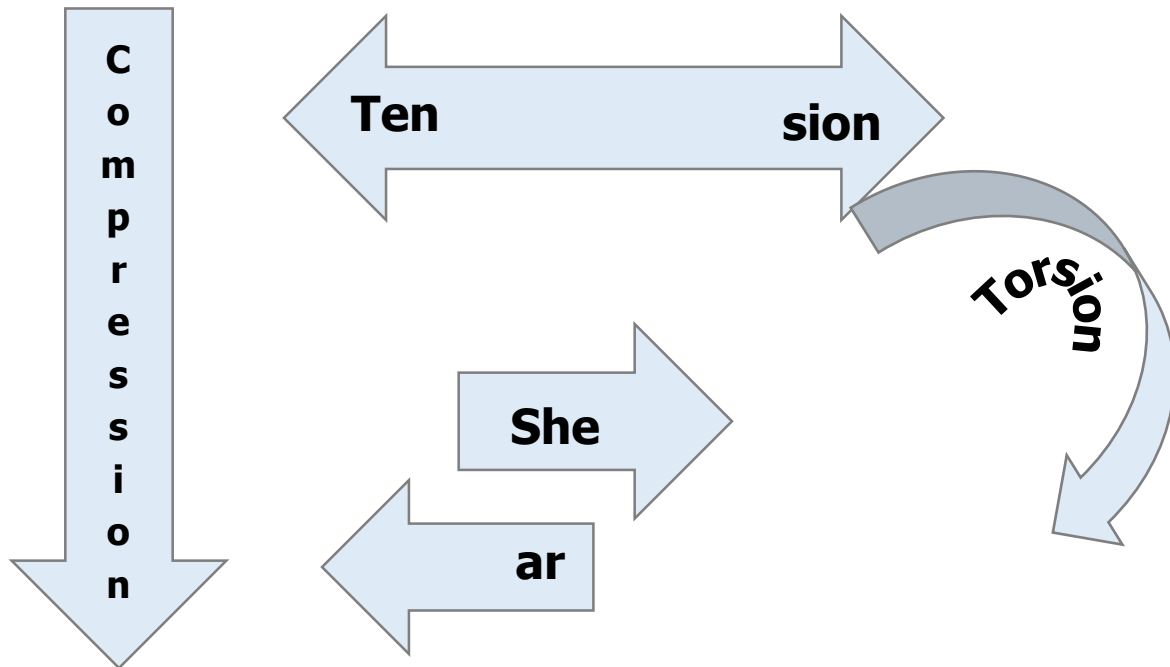




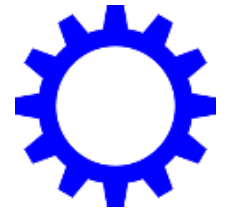
**Forces**



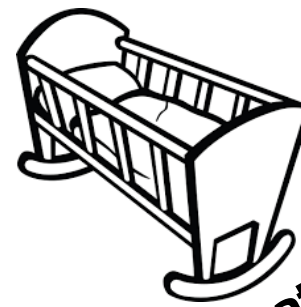
**Motion**



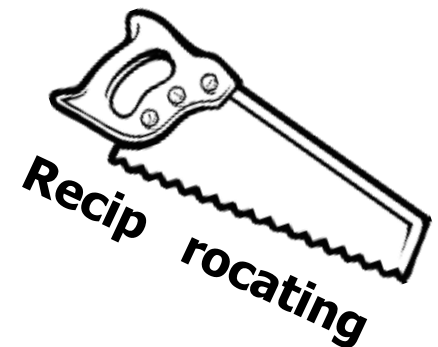
**Linear**



**Rotation**

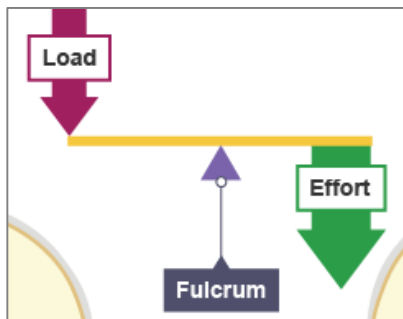


**Oscillating**

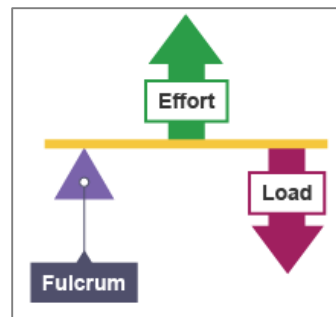


**Reciprocating**

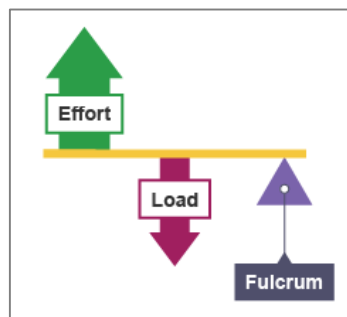
**Levers**



**1<sup>st</sup> Class Lever:**  
Fulcrum in the centre  
E.g. Scissors



**2<sup>nd</sup> Class Lever:**  
Load in the centre  
E.g. wheelbarrow



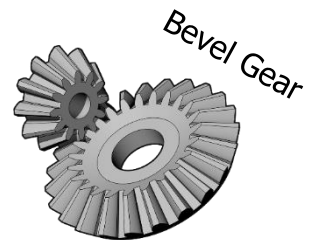
**3<sup>rd</sup> Class Lever:**  
Force in the centre  
E.g. Lifting a dumbbell

**Gears and Pulleys**



A Pulley is a grooved wheel, that has a belt running through it

This uses rotary motion and is often used to help with heavy loads, and transfer force from a motor to a tool in machines like drills, etc



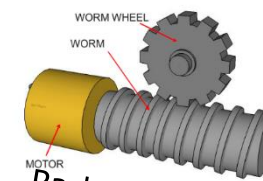
**Bevel Gear**



**Spur Gear**

Gears have teeth that mesh together with each other (like teeth on a zip)

They mainly focus on rotary motion on tools and machinery e.g. car steering and pillar drills



**Rack and Pinion**



**Worm and Wheel**