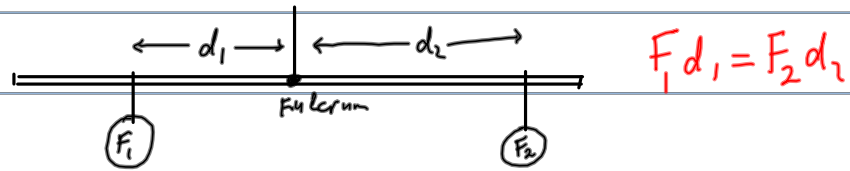


Ch.35 **The Law of the Lever**: states that when a lever is balanced the sum of clockwise moments equals the sum of anti-clockwise moments.



Centre of gravity: is the point through which the weight of an object appears to act.

Ch.36

Pressure: is force divided by area (Pa) (N/m^2)

$$p = \frac{F}{A} \quad \text{units: } \frac{\text{N}}{\text{m}^2}$$

Ch.37

Work: force times distance (J) (Nm)

$$W = F \times d$$

Energy : is the ability to do work
(J)

The principle of conservation of energy :
Energy cannot be created or
destroyed but can be converted from
one form to another.

Renewable energy sources won't
run out (e.g. solar, wind,
hydro, tidal, biomass)

Non-renewable energy sources will
run out (oil, natural gas, coal)

Ch. 38

Heat : is a form of energy (J).

Temperature : is how hot or cold
something is . (°C)