

Moments

The turning effect of a force

$$\text{Moment (Nm)} = \text{force (N)} \times \text{perpendicular distance (m)}$$

Levers are a common example of moments. Moments can be clockwise or anticlockwise and if the anticlockwise and clockwise moments are equal the object is balanced.

Simple levers

Act as a force multiplier to increase the amount of force you can apply to accomplish a task. This allows you to move a very big load with little effort

Not all levers act as force multipliers some reduce the effect of a force such as fishing rods to avoid damaging the object.

Hydraulics

Hydraulic systems use liquids to transmit and multiply forces because liquids are virtually incompressible unlike gases e.g. air and are used in braking systems in cars.

$$\text{Pressure (Pa)} = \text{force (N)} / \text{area (m}^2\text{)}$$



A small force on a large area is a small pressure whereas a large force on a small area is a large pressure

When pressure is exerted on a liquid the pressure exerted acts in all directions



Pressure in a fluid

$$\text{Pressure (Pa)} = \text{height (m)} \times \text{density (kg/m}^3\text{)} \times \text{gravitational field strength (N/kg)}$$

Pressure increases with depth in a liquid or gas because the pressure depends on the weight of the fluid above.

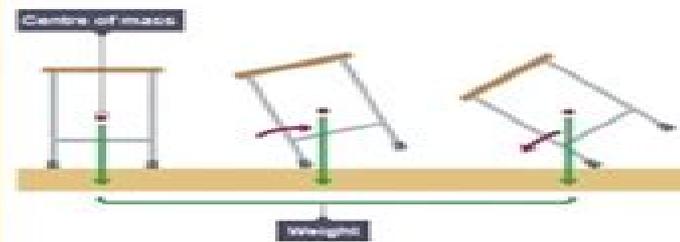
This explains upthrust. When an object is placed in a fluid the pressure on its bottom is more than the pressure on its top so there is a net upwards force equal to the weight of the water that the object has displaced which depends on the objects volume. An object will sink if its density is more than that of water (1).

Centre of Mass

This is where the weight of an object acts from.

The lower the centre of mass the more stable the object is and the greater the contact area or base of an object, the more stable.

This is because the lower the CoM the smaller the perpendicular distance so when a force is applied the resultant moment will be smaller so the object is less likely to topple. The bigger the base the more force is needed to push the object so that the line of action of the weight is outside the base, passed the pivot.



Gears

Transfer the moment of a force (or torque) - they transmit and multiply moments - and can change the speed of the turning mechanism. They can also change the axis of rotation.

$$\text{Moment}_{\text{small}} : \text{moment}_{\text{large}} = \text{teeth}_{\text{small}} : \text{teeth}_{\text{large}} \\ = \text{radii}_{\text{small}} : \text{radii}_{\text{large}}$$

$$V_{\text{small}} : V_{\text{large}} = \text{teeth}_{\text{large}} : \text{teeth}_{\text{small}} \text{ (flipped!)} \\ \text{Because bigger gears turn slower}$$

$$\text{Power} = \text{force} \times \text{velocity} \text{ or } \text{moment} \times \text{velocity}$$

Atmospheric pressure

Atmospheric pressure is created by air molecules colliding with a surface. The atmosphere gets less dense with increasing altitude and pressure decreases with an increase in height because there are less air molecules.

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