

### 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.

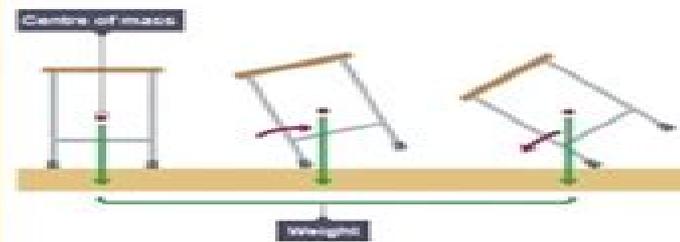
This explains upthrust. When an object is placed in a fluid the pressure on its bottom is more than the pressure on its top so there is a net upwards force equal to the weight of the water that the object has displaced which depends on the objects volume. An object will sink if its density is more than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

$$\text{Moment}_{\text{input}} : \text{moment}_{\text{output}} = \text{teeth}_{\text{input}} : \text{teeth}_{\text{output}} = \text{radii}_{\text{input}} : \text{radii}_{\text{output}}$$

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

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

### 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.

# Physics Revision Notes Forces And Motion

**JR Anderson**



## **Physics Revision Notes Forces And Motion:**

Physics Revision Notes Forces And Motion: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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