

Moments

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A moment is the product of each force and its distance from a fixed point, the pivot.

A rigid body is an object or body that is assumed to have a size and shape and not to be deformed when forces act upon it.

Equilibrium is where the sum of all the moments is 0 as well as the sum of the forces so the motion is uniform.

Levers can be used to lift heavy objects using a relatively small force, based on moments.