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Rob Thomas - Mechanical Engineering alumni **Mechanical Engineering Formula**

Formula: MI for Solid Rectangular Beam = ( (Height<sup>3</sup> x Width) / 12) Deflection = (Length<sup>3</sup> x Force) / (3 x E x MI) Bending Stress = (Force x Length) / (MI / (0.5 x Height)) Where, MI = Moment of Inertia. E = Modulus of Elasticity in psi.

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PLTW, Inc. Engineering Formulas y Mechanical Advantage (MA) IMA = Ideal Mechanical Advantage AMA = Actual Mechanical Advantage D E = Effort Distance D R = Resistance Distance F E = Effort Force F R = Resistance Force Wedge L Pulley Systems = N IMA = Total number of strands of a single string supporting the resistance d d IMA = Wheel and Axle

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$q$  = heat transferred per unit time (W, Btu/hr)  $A$  = heat transfer area of the surface ( $m^2$ ,  $ft^2$ )  $h_c$  = convective heat transfer coefficient of the process (W/ ( $m^2 K$ ) or W/ ( $m^2 o C$ ), Btu/ ( $ft^2 h...$

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