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NewProvd $U_1 - 2 = F \cos x$. Work
of the weight. $U_1 - 2$

$= -W$ $y = -W(y_2 - y_1)$ Work of the
force exerted by a spring. (x is the
deformed distance) $U_1 - 2 =$
 $kx_1 - kx$. Work of a gravitational force
) $U_1 - 2 = GMm -$

PRINCIPLE OF WORK AND ENERGY:

$T_1 + U_1 - 2 = T_2$. $B A B$ $F = m$

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Probability. Conditional Probability.
Binomial Probability (order doesn't matter) P_k (= binomial probability of k successes in n trials p = probability of a success $1-p$ = probability of failure k = number of successes n = number of trials. Independent Events. $P(A \text{ and } B \text{ and } C) = P(A)$.

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Rectilinear motion $v = ds/dt$. $a = dv/dt$.
 $a ds = v dv$. velocity dv/v .

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Formulas $T F = \text{Efficiency}$ $d = d_{00}$

Energy: Work $W = \text{work}$ $F = \text{force}$ $d = \text{distance}$ Fluid Mechanics 1 $T' L$

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Power (Guy-L' L P 1 V 1...

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Common geometric Formulas

Circumference = $2\pi r$ Area circle = πr^2

Surface area (sphere) = $4\pi r^2$ Volume

(sphere) = $\frac{4}{3}\pi r^3$ Volume (rectangular
solid) = $l \cdot w \cdot h$ = $\frac{1}{2} \cdot \text{base} \cdot \text{height}$ Velocity

Average Velocity = $\frac{v_1 + v_2}{2}$ 2.2

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$M = V / a$ (4.5) Where M = Mach
number V = fluid flow velocity (m/s) a
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Like these equations are incredibly important in Dynamics. SUVAT Equation 1 As you probably already know, velocity divided by time is equal to acceleration and velocity multiplied by time is equal to displacement.

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x_i : $m = \sum_{i=1}^N m_i$
Continuum of mass about an axis.
 $\mathbf{m} = \int \rho \left(\mathbf{r} \right) x_i \, dV$

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