

Kinematic Equations

Work and Energy

Equation	Variables	Purpose / Name
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$E = mc^2$	$E =$ energy in a given system, m = mass	Einstein's Equation
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$W = Fd\cos\theta$	$F =$ magnitude of the force on the system, d = displa- cement of the system, W = work	Work Equation #1
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$W_{net} = F_{net}d\cos\theta$	$F =$ magnitude of the force on the system, d = displacement of the system, $W =$ work	
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By [Dalia_mr](#)
cheatography.com/dalia-mr/

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