Kinematic Equations

Work and Energy

Equation	Variables	Purpose / Name
$E = mc^2$	E = energy in a given system, m = mass	Einstein's Equation
$W = Fd\cos\theta$	F = magnitude of the force on the system, d = displacement of the system, W = work	Work Equation #1
$W_{net} = F_{net}d\cos\theta$	F = magnitude of the force on the system, d = displacement of the system, W = work	