Work and Energy
W=Fcost ox

Positive when Fcoso and x in the same direction

Units:

joule J dyne-centimeter erg ft-16

W= F.3

W= \frac{1}{2} mv^2 - \frac{1}{2} mv^2 \text{ work-energy theorem

W=mgh No absolute potential energy

Conservative-work does not depend on path

E=KE+PE P=FV=W/t