

IP  
 •  $g \rightarrow kg \rightarrow F_g = mg$  in  $N$   
 •  $F_g$  drop down  $\downarrow$   
 • draw  $\parallel$  &  $\perp$  lines  
 • arrow tip  $\rightarrow$  line  $\perp = 90^\circ$   
 • arrow tip  $\rightarrow$  line  $\parallel = \Delta$   
 • IP  $\perp \rightarrow$  under the block  $\rightarrow$  alternate interior  
 •  $F_{\text{eff}} = F_{\parallel} = H \sin \theta = \text{opp}$   
 •  $F_{\perp} = H \cos \theta = \text{adj}$

Energy

<p><b>Kinetic</b></p> <ul style="list-style-type: none"> <li>• the E of movement</li> <li>• (J)</li> <li>• work = E</li> <li>• is the obj moving?</li> </ul>	<p><b>Potential</b></p> <ul style="list-style-type: none"> <li>• stored E</li> <li>• the E of position</li> <li>• always indicate a reference position</li> </ul>
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ground

• where is the obj? • (J)

$E_k = \frac{1}{2} m v^2$ <p>(J) (kg) (m/s)</p> <p>KE</p>	$E_p = mgh$ <p>(J) (kg) (m/s<sup>2</sup>) (m)</p> <p>PE</p>
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Oct 24-11:06 AM