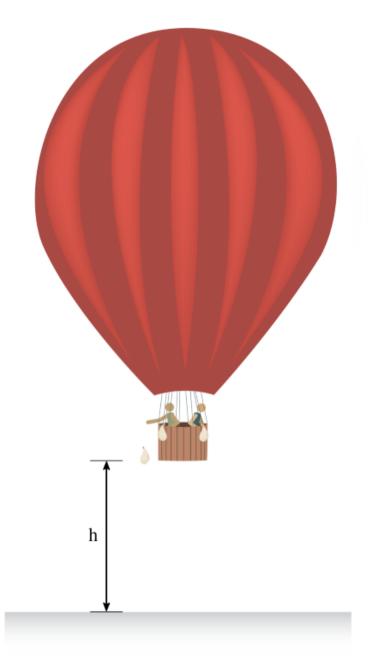
## 21-P-WE-GD-003



To increase the rate of climb, a ballast is dropped from the hot our balloon.

If the ballist falls is in from the balloon before hitting the ground and growity does W J of work on it, what is the mass of the ballast?

(Assume g=9.81 m/s² and neglect air resistance)

M direction of works (+ve work)

Force Equilibrium

 $\frac{\text{Work}}{\text{W} = -\text{Mg}(-h) = \text{Mgh}}$   $M = \frac{\text{Work}}{\text{M}}$ 

