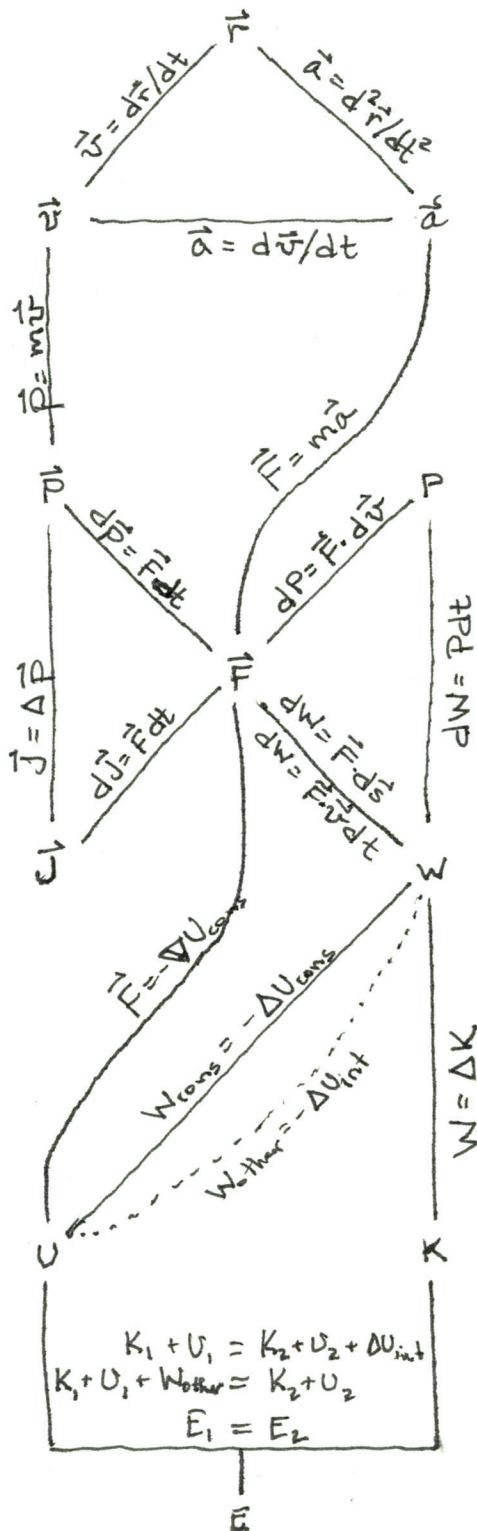


# TRANSLATIONAL MOTION

## CONCEPT MAP: DESCRIBING, CAUSING, & ACCOUNTING



$t$ : time  
 $\vec{r}$ : position  
 $\vec{v}$ : velocity  
 $\vec{a}$ : acceleration

$m$ : mass  
 $\vec{F}$ : force  
 $\vec{p}$ : momentum  
 $P$ : power  
 $J$ : impulse  
 $W$ : work

$U$ : potential energy  
 $K$ : kinetic energy  
 $U_{cons}$ : potential for conservative interaction  
 $U_{int}$ : internal energy  
 $W_{cons}$ : work done by conservative interactions  
 $W_{other}$ : work done by interactions not accounted for explicitly  
 $E$ : total energy