Overview of Semester

- Newton's Laws
  - ➔ $\Sigma F = m\,a$

- Work-Energy
  - ➔ $\Sigma F = m\,a$ multiply both sides by d
  - ➔ $\Sigma W = \Delta KE$ Energy is "conserved"
  - ➔ Useful when know Work done by forces

- Impulse-Momentum
  - ➔ $\Sigma F = m\,a$ multiply both sides by Δt
  - ➔ $\Sigma I = \Delta p$ Momentum is "conserved"
  - ➔ Useful when EXTERNAL forces are known
  - ➔ Works in each direction independently