

Mr. Schneider presents...

# Newton's Laws Topics

- Newton's three laws
- Inertia
- Weight
  - Weight is a force
  - Difference between weight and mass
- Free fall
- Balance of forces/net force
- Friction
  - Sliding/static friction
  - Air resistance
- Conservation of momentum
- Impulses change momentum
- Elastic vs. inelastic collisions
- $\vec{F}_{net} = m\vec{a}$ ,  $\vec{a} = \frac{\vec{F}_{net}}{m}$
- $\vec{F}_{weight} = m\vec{g}$
- $\vec{p} = m\vec{v}$
- $\vec{F}\Delta t = m\Delta\vec{v} = \Delta\vec{p}$