

Momentum and Impulse

- Momentum
A vector, $\vec{p} = m\vec{v}$
Changing momentum either implies a change in mass or a change in velocity
What is the only thing that causes a change in velocity? (Newton's 1st Law) a force!
- Impulse
Any time there is a change in momentum, the system experiences an impulse
This impulse is $J = Ft$
- Put together: $J = \Delta p = Ft$

Homework: p105 in book, #1-11