$$\sum F_s = ma = m\frac{\Delta v}{\Delta t}$$

$$F = ma \qquad ma = F$$

$$m = \frac{F}{a} \qquad a = F/m$$

$$F = m\frac{\Delta v}{\Delta t}$$

$$F\Delta t = m\Delta v$$

$F\Delta t$: Impulse

$m\Delta v$: change in momentum $= \Delta p$