

### Definitions and Formulas

Momentum is vector quantity that is equal to the mass of an object multiplied by it's velocity, It has units of  $\text{kg m s}^{-1}$  or  $\text{N s}$  and is in the same direction as velocity

$$P=MV$$

P

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$$\Sigma p_i = \Sigma p_f$$

$\Sigma p_i$  = total initial momentum ( $\text{N s}$  or  $\text{kg m s}^{-1}$ ),

$\Sigma p_f$  = total final momentum ( $\text{N s}$  or  $\text{kg m s}^{-1}$ )



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