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Momentum is conserved in collisions and explosions. Conservation of momentum explains why a gun or cannon recoils backwards when it is fired. When a cannon is fired, the cannon ball gains forward...

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0 = mv -Mu (here direction of velocity of nuclei is in opposite so it is minus)so u = mv/M this will be velocity of remaining nuclei in the backward direction. Similarly you can use conservation of momentum for gun case initially gun was at rest so Pi = Pf here Pi =0 hence use the equation . 0 = mv -Mu or u = mv/M.

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Momentum is conserved whenever the net external force on a system is zero. This makes momentum conservation a fundamental tool for analyzing collisions. All of Work, Energy, and Energy Resources is devoted to momentum, and momentum has been important for many other topics as well, particularly where collisions were involved.

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