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 $F \rightarrow Q$ V $Q = \frac{vu}{t}$ S= Displacement covered t= time taken. Initial momentum= mu Final 2 m = mV Change of momentum = mv-my Rate of change of momentum = mv-my According to Newston's 2nd Lawy motion. Rote of change of momentum & Applied 1 V= 4+ at 7 my-my ~ F =) at = v-u $\Rightarrow \alpha = \left(\frac{V-u}{+}\right)$ => mv-mu = Kf > m (V-4) = KF of m=1kg, a= was F=1N then a=1m/s =) [ma=F]V

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momentum F -> (m) (m)timest Initial relocity = y

Final relocity = V Many the body > m Listial momentum = ml Final v = mv Change of momentum = mv-mu Rote of change of momentum = t of Applied force = F. So, From Newton's 2 nd Land of motion of Rate of change of momentum = Applied force => mv-mu=F (mv-mu)=Ft> Change of momentum = Impulse,

Conservation of linear momentum (P-4) conserved unless and until noted whom

by external force?

M, B, W, E

After Collision

Gefore Collision

Poition menerum of body A = M, U, I

Total momentum of body A = M, U, I

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This momentum of body A = M, U, I ce Linear momentum of a system remains Shirt momentum of body A= m, V, -m, V, Change of momentum of body A= m, V, -m, 80, $\left(\frac{m_1 V_1 - m_2 V_1}{t}\right) = -\left(\frac{m_2 V_2 - m_2 U_2}{t}\right)$ => m, y, -m, u, = - m2 /2 + m2 42 => m, v, + m, v, = m, u, + m, v, > Total momentum before collision = Total momentum
After Collision