Let:

$V = 210\ {}^{m}/_{s}$

$m = 500g. = 0{,}5\ Kg$

$c = 0{,}3\ CGS\ units = 300\ {}^{J}/_{KgK}$

$\Delta T = ?$

The bullet kinetic energy passes in heat:

$Q = Ek$

$Cm\Delta t = \frac{mV^2}{2}$

$\Delta t = \frac{mV^2}{2Cm} = \frac{V^2}{2C}$

Let's enter the data:

$\Delta t = \frac{210^2}{2\times300} = 73{,}5\ ^\circ$

Answer:

The increase in temperature is: 73,5˚