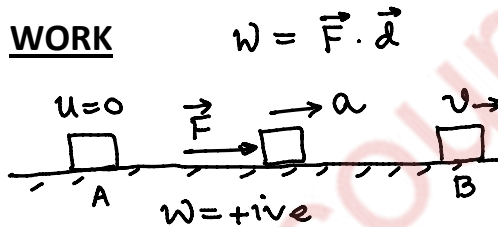


Class XI, Thermodynamics



$$\begin{aligned}\text{Gain in Energy} &= \frac{1}{2}mv^2 - 0 \\ &= \frac{1}{2}mv^2 \\ W &= \frac{1}{2}mv^2\end{aligned}$$

"Work is the form of Energy that is transferred from one body to another (from system to another) irrespective of the temp. of the body".

* work depends upon the path (process) followed by the system. Work is not a state function.