

{youtube}9ijD9Ltg6pg{/youtube}

Consider a block of mass m moving with an initial speed v_i on a horizontal surface. The block is pushed by a constant force F over a distance d . The final speed is v_f .

$$E_1 = E_2$$

$$E_1 = \text{initial kinetic energy}$$
$$E_2 = \text{final kinetic energy}$$

The work done by the force F is equal to the change in kinetic energy of the block.

1. The work done by the force F is equal to the change in kinetic energy of the block. $W = \Delta K$

2. The work done by the force F is equal to the change in kinetic energy of the block. $W = \Delta K$

Source : <http://www.youtube.com> clipvidva

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