### 2.7 Force and Work.notebook



Ex.) A 30 kg kid is accelerated at $2.5 \mathrm{~m} / \mathrm{s}^{2}$, what is the force acted upon the kid?


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Ex.) A force of 800 N is acting on a 15 kg box, what is the acceleration of the box?


Ex.) A force of 300 N is required to move an object 3.0 m . What is the work done?


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Ex.) A force on 250 N moves an object. The work done is 1000 J , how far did it move?


In order for work to be done:

1. A force must be applied.
2. The object must move in the direction of the force.

Work $=\Delta$ Energy
"change in"

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