

Which would do more damage- stopping a truck, moving at 60 mi/h, by running into:
a brick wall? a haystack?

$$F t = m \Delta v$$

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The _____ and change in _____ of the truck are held constant. To decrease force, the _____ it takes the truck to stop must be _____.

more examples of extending time to decrease force:

Physics Challenge:

Which is more likely to break a window?

- a. a rubber ball b. a clay ball c. neither

Use the impulse equation to explain:

Law of Conservation of Momentum:

- system -
- closed system -
- isolated system -

Notes on Collisions:

elastic collisions -

inelastic collisions -

_____ is conserved in all types of collisions.

"Show What You Know" (on back)