

# Egg Drop Notes

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## Impulse

- Small amount of time, large Force.  
↳ egg breaks.
  - What makes a better egg catcher?
    - cushion, soft landing  
↳ longer impact time.
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Jumping on scale with knees straight

↳ small time, large force

Jumping on scale with knees bent

↳ more time, less force

Change same amount of momentum by lengthening impact.

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If you get into a car accident → should the seatbelt stretch?

- yes - to lengthen time.

↳ lessen force

Should the car crumple?

- yes - to lengthen time

↳ lessen force