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## Crash test dummy

Posted by [sat](#) on Sat, 2014-03-15 10:48

This resource looks at the concepts of collisions and momentum.

The online resource is an entertaining student presentation including slides, two videos and a short experiment that focuses on the physics concepts of collisions and the role of crumple zones.

The video shows the equations involved with momentum and impulse to reduce force through crumple zones. Also a short experiment of a collision between a car and a wall, with and without a crumple zone, is shown and the difference in force is calculated and explained.

Another short video shows a humorous demonstration of the use of seat belts.

Australian Curriculum v9 Codes: AC9S10U05 (Year 10)

**Tags:**

[collision](#)

[crumple zone](#)

[impulse](#)

[force](#)

[seatbelt](#)

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## Momentum

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