



Acceleration We down what you thin is the maning of acceleration



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ACCELERATION

Imagine two drivers side by side at a set of traffic lights, the lights are on red. Angus is in a boring saloon car, and Catilin is sitting on her motorbike. The lights turn green and both vehicles set off. Both vehicles accelerate, the speed of both vehicles increases.

After a while both vehicles reach the same speed; but we can tell that the motorbike will have a greater acceleration than the car. Acceleration is not just about the increase in your speed /velocity it takes account of the time it takes to change your speed /velocity. The <u>time it takes</u> your speed velocity to change must be in the



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 $acceleration = \frac{change in velocity}{time for the change}$

The proper unit for acceleration is metres per second per second, metres per second squared. (miles per hour per second). m/s^2 or ms^{-2} mph/s



....and lastly ↓ Do you think you are accelerating when you are slowing down?

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