

so lets take a look at the physics in this slam

in this corner we have the ultimate warrior weighing in at 280 lbs and a height of 6 feet 2 inches



in the other corner is international champion "Ravishing" Rick Rude with a weight of 251 and height of 6 feet 2 inches



As every Wrestling Fan knows, Wrestling isn't all about the Wrestling itself, the entrance is just as important.

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It takes to have a successful entrance, the wrestler must have a good entrance song and the song needs to be heard by the audience, so the song must be loud and clear.

### Another common Physics subtopic found in Wrestling is Momentum

Momentum is a vector quantity, it has both magnitude and direction. It is the product of mass and velocity.

Here is a good example of Momentum Laws in Physics



When you push a book, it moves. The force you apply is the cause of the motion. The book's mass and velocity determine its momentum.

Newton's second law states that the acceleration of an object is directly proportional to the net force acting on it, and inversely proportional to its mass.



World Championship Wrestling - A Crisis of Leadership (C)

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Newtons Third Law State that every action has an equal and opposite reaction, this means that for ever force an object applies on another, that force is also applied on it.

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while it is easy for everyone to watch enjoy and marvel at the spectacular world that is professional wrestling, but to truly understand the magnitude of how awesome it is one must understand physics, the science behind all of it.

- first lets start with a few imprtant formulas
- Acceleration= displacement/ time squared
  - Force= mass x acceleration
  - work= Force x distance
  - power= work/ Time

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# World Championship Wrestling - A Crisis of Leadership (C)

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As every Wrestling Fan knows, Wrestling isn't all about the Wrestling itself, the entrance is just as important.

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In order to have a succesful entrance, the Wrestler must have a cool entrance song and that song needs to be heard by his opponent, to strike fear into his heart.

The sound of the entrance song will travel through the air in waves or vibrations at a speed of 1,236 kilometres per hour (768 mph) So almost immediatly after the Wrestler enters and his or her song plays, the waves will reach his opponent's ears. Their will be many waves produced, by the different instruments in the song, and the vocals, which will have different frequencies and wavelengths which will change the pitch of the sound. Also the amplitude of the sound wave will change the loudness of each sound.

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So although HBK is the one delivering the kick, the force felt by both Superstars is equal, which is why both HBK and Bret "The Hitman" Hart are knocked to the ground by this move. HBK went on to pin Bret Hart and steal his WWE

So although HBK is the one delivering the kick, the force felt by both Superstars is equal, which is why both HBK and Bret "The Hitman" Hart are knocked to the ground by this move. HBK went on to pin Bret Hart and steal his WWE Championship belt, making Bret the Heart BROKEN Kid  
(Pause for Laughter)

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while it is easy for everyone to watch enjoy and marvel at the spectacular world that is professional wrestling, but to truly understand the magnitude of how awesome it is one must understand physics, the science behind all of it.

First lets start with a few important formulas

- $\text{Acceleration} = \text{displacement} / \text{time squared}$
- $\text{Force} = \text{mass} \times \text{acceleration}$
- $\text{work} = \text{Force} \times \text{distance}$
- $\text{power} = \text{work} / \text{time}$