



Importance of Kinematics

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Newton's First Law

- A body at rest will stay at rest
- A body in motion will stay in motion

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3 Collisions

- Vehicle
- Occupant
- Organs

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Law of Conservation of Energy

- Energy cannot be created
- Energy cannot be destroyed

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Force

- Force = Mass x Acceleration
- Force = Mass x Deceleration

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Blunt Trauma

- Compression
- Shear strain
- Tensile strain
- Torsion

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Compression Injuries

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Shear Injuries

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Tension Injuries

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Lap Restraints

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Shoulder Restraints

- Abdominal injuries
- Chest injuries
- Clavicular fractures
- Spine injuries

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Airbags

- Front Airbags
- Side Airbags

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