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## Unit 5: Newtonian Mechanics -Linear Momentum

LAB: Impulse-momentum theorem

Objective: Analyze data to characterize the change in momentum of an object from the average force exerted on the object and the interval of time during which the force is exerted.

## Equipment:

• Options: PASCO system, PASCar, force sensor, force sensor mounting bracket, motion sensor, track, extra masses, and any additional materials you choose.

## Safety:

• Take care that cars stay on the tracks.

## Procedure:

- Helpful tip: Create a collision of the car against the force sensor.
- Run an error analysis. Redo the experiment if the error is above 10% difference.