In this lab we will be looking at momentum and how it changes when objects crash into each other. Momentum is measured in kg\*m/s and the formula for momentum is where p and v are vectors. Momentum is the amount of weight that is applied to a speed. A conservative momentum will not change, it will stay constant. An elastic collision is when there is no loss of kinetic energy in the collision. An inelastic collision is when part of the kinetic energy is changed to some other form. We will be using an air track with two gliders, motion sensors and the computer so that we can move the gliders across the frictionless air track at different speeds and graphically show what happens when the gliders collide and how this effect the momentum of each glider.