PHYSICS

Momentum

- ** REVIEW **
 - Velocity ... [v =]
 - Acceleration ... [a =]
 - Distance ... [d =]
- Momentum
 - Momentum is where *INERTIA* meets *MOTION*
 - Momentum = mass x velocity [P =]
- Impulse
 - Impulse = force x time interval
 - Examples: baseball bat, golf club, ping pong racquet, gun, crash, hit
- Impulse CHANGES Momentum
 - As force changes velocity, impulse changes momentum.
- Conservation of Momentum ... Pbefore = Pafter
- Collisions
 - \circ Simple Collisions: one on one, few on few in a straight line
 - Complex Collisions: more on more, angles (vectors)
 - Elastic vs. Inelastic
 - elastic = bounces ... action reaction causes more force delivered
 - inelastic allows less reaction and feels less force [ball bouncing off vs. sticking]