Pd

Date

Impulsive Force Model Conservation of Momentum Examples

As long as no objects external to the system contribute to net forces on the system, **Total initial momentum = Total final momentum**

- 1. Specify the impulsive force event that separates initial and final situations.
- 2. Designate objects in the system by listing the object, its mass, and its velocity in the chart -- use variables for unknown quantities.
- 3. Draw a horizontal bar to represent the size and direction of the momentum for each object.
- 4. Write the conservation of momentum equation for the bars and solve for the unknown quantity.

Example 1:

event:



Example 2:

