

# Conservation Laws Worksheet

(Adapted from Van Heuvelen,  
*Overview Case-Study Physics*)

## 1. Pictorial Representation

\_\_\_ symbols, including masses and velocities

\_\_\_ coordinate axes

INITIAL

FINAL

List known quantities:

List unknown quantities:

## 2. Physical Representation

Specify what the "system" is:

Which conservation law(s) apply, and why?

## 3. Mathematical Representation

Apply the appropriate conservation law(s) in mathematical form and solve.

## 4. Evaluation

\_\_\_ correct sign?

\_\_\_ appropriate units?

\_\_\_ reasonable magnitude?