

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?