

# Constant Acceleration Problem Worksheet

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

## 1. Pictorial Representation

- \_\_\_ coordinate axes
- \_\_\_ sketch of situation, labeled with symbols
- \_\_\_ specification of origin of time

List known quantities:

List unknown quantities:

## 2. Physical Representation

Explain why this qualifies as a constant acceleration problem, and list any assumptions or approximations that you need to make.

## 3. Mathematical Representation

Apply the equations for position and velocity under constant acceleration, solve algebraically for unknown quantities, then plug in numbers.

## 4. Evaluation

- \_\_\_ correct sign?
- \_\_\_ appropriate units?
- \_\_\_ reasonable magnitude?