Quantitative Reasoning and Problem Solving Outline

Step 1: Analyze the Problem
- Determine the context. What have you recently learned?
- Read through the problem.
- Pull out relevant information: make a list!

Step 2: Make A Game Plan
- Determine the Goal: What is the end result?
- Draw it: picture, graph, figure, timeline. Label it!
- Check understanding: Do you know the concepts?
  - NO: Re-read textbook, notes, & review similar problems.
  - YES: Determine assumptions
- Break problem into pieces; solve one at a time

Step 3: Sort Through Pieces
- Lay out formulas, equations, & methods.
- Do you understand each part?
  - NO: Re-read textbook, notes, & review similar problems
  - YES: Think back: Make sure formulas align with end result

Step 4: Solve!
- Work with variable form first and simplify
- Show all of your steps
- Verify methods, assumptions, & results
- Check that you understand the entire process!