



Complete each step from the problem solving study cycle for each new topic you learn in class.



1 Familiarize

Topic to learn: _____

Resources I will use to help me learn:

- Class notes
- Online videos
- Honor society tutoring
- Textbook chapter _____
- Professor/TA office hours
- Other _____

Using your tools, write a summary of the topic below: (definitions, diagrams, background info, etc.)

Write any new formulas/equations below and fill out the table for each variable:

Variable (abbreviation)	Definition and role of variable in formula/equation	Units



Analyze

Separate your work in Step 3 into defined steps, numbering each one. Think about how you solved the problem and why you solved it the way you did. Fill in the table below by writing in words what you did for each step.

Step #	Explain in words what you did	Why?

(Continue on back if needed)

Try to **teach the problem** to someone else or to yourself (aloud). Were you successful? If not, read what you wrote in Step 1 and try again with a similar problem.



Evaluate

Was the problem that you did challenging? Yes No

(if you answered no, challenge yourself to do steps 3 & 4 again with a more difficult problem)

What are some similarities/difference between this problem and others that you've done in this class?	How could the problem be modified on an exam to add a "twist" that would make it more challenging?