Our goal in this course is to provide you with a variety of opportunities to learn the course material. The online activities are designed to give you practice in applying chemistry concepts to real world situations. We hope you will find them both interesting and beneficial to your learning experience.

In many of these activities, you will be using the ChemCollective virtual laboratory. This software allows you to design and carry out your own experiments, much as you would in a real chemistry lab. To ensure that you may successfully complete each assignment, you will enter your answers into a form on the web page and get feedback regarding the accuracy of your response including, when possible, hints as to how to better achieve the goal of the activity. You can try the problems as many times as you like but please be aware that each time you reload the web page, you will get a different problem that will have a different solution. To prevent random guessing, you will be forced to reload the page after a few incorrect responses. (In this assignment, you are given one chance for parts 1 and 2, and three chances for part 3).

Part 3a is required and part of the normal homework grade. Part 3b is a more challenging version of this activity, and successful completion is worth 2 bonus points.

There are three problems that you can access via the link below. The homework is due at the start of recitation on Thursday, January 25. For all three problems, please turn in printed copies of the web page that states that the problem was solved (one page for each of the three problems). For parts 1 and 2, this web page contains information you typed regarding your procedure. For the third problem (named Wizard), this information is not on the web page, so please also turn in a description of the process you used to solve the problem. This description should be about 2 paragraphs long and be either typed or written neatly.

Please go to http://www.chemcollective.org/chem106/hw1 to access this assignment. This web site includes a video tutorial on using the virtual lab software. Technical help is available via email to vlabhelp@chemcollective.org.