

Name:

Lab 1: Orientation Activities and Math Review

Due 6/3/20 by 7:30 AM

Submit the completed PDF to Blackboard

Note: Please use handwriting to answer questions/show work – don't type!

1. (1 point) The best way to contact me is by e-mail. Send me an e-mail at kristin.price@mccckc.edu, telling me your current favorite book or podcast (or just something else about yourself).

Text

2. (1 point) You also need to learn how to use Blackboard. What is the date and time of the first Blackboard announcement for our course?

Text

3. (1 point) One of the best places to get help in this class is in the Math-Science Lab, MSC 121. Free tutoring is available online, 9-6 M-Th. Tutoring will be taking place on Discord. Please insert a screenshot of you on the Math-Science lab's Discord server.

Instructions on how to connect: <https://youtu.be/EtbDR2NCKjw>

Link to MS Lab Discord server: <http://discord.gg/uNmEhDt>

Text

4. (1 point) We will be using Knewton-Alta for our online homework assignments. Sign up and connect to the class page.

Text

5. (1 point) We will be submitting assignments and quizzes to Blackboard for grading. It is important that you submit your work as a PDF – you can either edit a document as a PDF on your device and submit it or you can print off the PDF, complete your assignment and scan it to a PDF to submit using your phone. If you are scanning, please make sure your pages are in order and each page of your scan is legible. Submit this document properly for full credit.

6. (4 points) Please complete this short questionnaire about yourself. This helps me get to know you and to understand who my audience is this semester. Please be honest with me! I will not share your answers with anyone else.

Name/Preferred Name	
Prior science classes	
Highest math class taken	
Career goal	
Favorite subject	
Hobbies/interests	
Any concerns for 105 or anything else you would like Dr. Price to know	

Math Review: While there is not an official prerequisite for math in Chem 105, we have found that the more math you have had the more successful you tend to be. If you have not completed an algebra class, I would recommend waiting to take 105 until you have passed algebra. To give you an idea of the math that you will be expected to know, please complete the following questions.

7. (2 points) Scientific Notation

a. Rewrite 0.00004031 in scientific notation.

b. Write 1.02×10^5 in decimal notation.

8. (2 Points) Order of Operations

a. $(4.3 \times 5.4)/(4.35 \times 1.42)$

b. $2.5 \times (1.34 + 9.87)$

9. (3 points) Algebra (show your work for full credit)

a. $5x + 12 = 26$

b. $8(x+3) = -4x$

c. $\frac{x^3}{x^{-2}}$

10. (2 points) Rearranging equations

a. Solve for R in the equation $PV=nRT$

b. Solve for x in the equation $\frac{H}{x} = \frac{J+K}{L}$