Unit 4 Study Guide/Plan:

Your Unit 4 exam is coming up. My form of a study guide is designed to help you figure out what topics are important and to study and prepare for the test by focusing on the work you have done, the skills you have been building and the skills you still need to work on. I do not give a study guide that looks similar to your test. If you have been doing your classwork, setting up your notes, watching the videos and completing your homework like I have been coaching you to complete it (all problems/original question written, all work shown), summarizing etc. your best study guide is your own notebook. If you have not been doing that, think about what you can do to improve for the next unit!

Here is what you should have done, or should do to prepare:

- Complete all homework.
- Review your classwork that has been done and make sure you summarized your learning.
- Review your homework that's been done and make a list of questions/problems you still don't understand. Ask
 myself or a peer for help, or google the topic on your own and watch some videos or read up on one of the
 myriad magical math websites out there for help. Try similar problems for additional practice.
- Complete Chapter 1, 2, and 3 Closure Problems, as well as the Ch 4 and 9 Closure problems I assign--I will not check it (you should, answers are included in the table in the chapter) but it will benefit you GREATLY to do them. When you check them, if you get a problem wrong, there is extra help and practice listed in the answer table. Go and try those problems or use the help that is listed.
- Complete Checkpoint 1, 2 and 3.
- Watch every required video that you have not yet watched. Go back and refresh on any topics you don't feel confident in by watching the video again/taking notes.
- Work with a peer to study or get help!
- Come to the test review session that will be posted on our calendar and hosted at Lunch and Packtime with any questions that you might have.
- Create a Study Guide sheet. It may be a maximum size of 8.5" x 11", front and back with NO oragami or fold outs!

Topics that may be on your Unit 4 Exams:

CHAPTER 1

- Function notation
- What makes a function a function: DEFINITION: A relation is a function when each input has ONE and ONLY ONE output (one x has one y value).
- Domain and Range
- solving multi-step equations (checkpoint 1)

CHAPTER 2

- Graphing Linear Equations
- using y=mx+b
- Finding the equation of a line given 2 points. You must be able to correctly find slope and find the y-intercept. You should be able to do this algebraically.
- Find the slope, y-intercept and equation of a line from a graph, table, situation or equation and represent linear situations in all of these forms
- Order of Operations/Rational Expressions (Checkpoint 2)

CHAPTER 3

- Solving absolute value equations (SEE EXAMPLES IN YOUR BOOK, your notes or look online--there are two
 answers--you do not change the expression but the constant you are solving for to positive version and negative
 version)
- Solving equations with distributive property
- simplifying exponents (a negative exponent does not make a negative value! A negative exponent means how many times you divide 1 by that number--the reciprocal!)
- scientific notation

CHAPTER 4

- Solving a system with graphing
- Solving a system with substitution
- Solving a system with elimination
- What is the solution for parallel lines? Coinciding lines? Intersecting lines?

CHAPTER 9

- Solving and graphing a single variable inequality
- Solving and graphing two variable inequality
- Graphing a system of inequalities to find the solution

Good Luck!