**Study Guide/Plan:**

**Your Individual Test is coming up after the break. My form of a study guide is designed to help you figure out what topics are important and to actually 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—though I am providing optional practice over the break. See website for details!**

**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 now for Unit 3. There is still time for this unit, too--so get to work! :)**

**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 and 2 Closure Problems--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.
- Complete Checkpoint 1 and 2.
- Watch every required video that you have not yet watched.
- Create a Study Guide sheet. It may be a maximum size of 8.5" x 11", front and back with NO oragami or fold out pieces.

**Topics that may be on your Individual Test (this is the list of topics you should have mastered/should know how to do at this point in time):**

- Functions: function notation, function machines, Domain/Range and what makes a function a function (Ch 1)
- solving multi-step linear equations for x and showing the check (Checkpoint 1)
- Describing a graph or function completely (Learning Log 1-32)
- Order of Operations/Rational Expressions (Checkpoint 2)
- Squares/square root, cubes/cube roots (perfect squares and perfect cubes) (Ch 1 and 2)
- Absolute Value (Ch 1 and 2)
- Find the slope, y-intercept and equation of a line from a graph, table, situation or equation (Ch 2)
- Represent a line or linear function in any form (table, graph, equation, situation) (Ch 2, Thanksgiving Packet)
- Identify negative slopes (Ch 2, Thanksgiving Packet)
- Find the equation of a line in slope intercept form given two points or the slope and a point (must find slope then "b" then find equation y=mx+b) (Ch 2, Thanksgiving Packet)
- Real-world interpretation of slope and y-intercept and a linear situation (Ch 2, Thanksgiving Packet)
- Know the slope of horizontal and vertical lines (Ch 2)
- Know how the slopes of parallel lines relate (are the same: if line 1 m = 2, line 2 m = 2) and perpendicular lines relate (the opposite (+/-reciprocal: if line 1 m = 2, line 2 m = -1/2 ). (Ch 2)