Name	Date	Hour
Name	Dale	11001

2014-2015 Algebra 1 & 2 Basic Goals and Prerequisite Skills

Main Topic: Numerical Relationships (remember you must be able to APPLY each of these skills in real world situations)				
Algebra 1 Skills for Review	Best description of your goal mastery?			
Without a calculator, I Know my basic facts (0's – 10's) and can add, subtract, multiply & divide integers (positives and negatives), graph them and write them in increasing or decreasing order	☐ I have 80%+ mastery of this without review ☐ I have 80%+ mastery of this after review ☐ I have 50-79% mastery of this after review ☐ I have 0-50% mastery of this after review ☐ I've seen this but have no idea how to do it ☐ I have never seen this			
Without a calculator, I can Add, subtract, multiply & divide fractions, decimals and percents and convert between them, graph them and write them in increasing or decreasing order	☐ I have 80%+ mastery of this without review ☐ I have 80%+ mastery of this after review ☐ I have 50-79% mastery of this after review ☐ I have 0-50% mastery of this after review ☐ I've seen this but have no idea how to do it ☐ I have never seen this			
Without a calculator, I can Simplify square roots and put them in simplest radical form	☐ I have 80%+ mastery of this without review ☐ I have 80%+ mastery of this after review ☐ I have 50-79% mastery of this after review ☐ I have 0-50% mastery of this after review ☐ I've seen this but have no idea how to do it ☐ I have never seen this			
I understand and can use Factors, multiples, LCM & GCF	☐ I have 80%+ mastery of this without review ☐ I have 80%+ mastery of this after review ☐ I have 50-79% mastery of this after review ☐ I have 0-50% mastery of this after review ☐ I've seen this but have no idea how to do it ☐ I have never seen this			
I can Write, solve and work with ratios and proportions	☐ I have 80%+ mastery of this without review ☐ I have 80%+ mastery of this after review ☐ I have 50-79% mastery of this after review ☐ I have 0-50% mastery of this after review ☐ I've seen this but have no idea how to do it ☐ I have never seen this			
I understand and can use the order of operations (including the distributive property)	☐ I have 80%+ mastery of this without review ☐ I have 80%+ mastery of this after review ☐ I have 50-79% mastery of this after review ☐ I have 0-50% mastery of this after review ☐ I've seen this but have no idea how to do it ☐ I have never seen this			
I can translate between algebraic expressions and verbal models	☐ I have 80%+ mastery of this without review ☐ I have 80%+ mastery of this after review ☐ I have 50-79% mastery of this after review ☐ I have 0-50% mastery of this after review ☐ I've seen this but have no idea how to do it ☐ I have never seen this			
I can solve single and multiple step linear equations with integers, fractions or decimals) apply them (word problems) when variables are on both sides of equal sign	☐ I have 80%+ mastery of this without review ☐ I have 80%+ mastery of this after review ☐ I have 50-79% mastery of this after review ☐ I have 0-50% mastery of this after review ☐ I've seen this but have no idea how to do it ☐ I have never seen this			
I understand and can organize and use data in tables or a graph using Coordinate Plane Bar, circle & line Graphs	☐ I have 80%+ mastery of this without review ☐ I have 80%+ mastery of this after review ☐ I have 50-79% mastery of this after review ☐ I have 0-50% mastery of this after review ☐ I've seen this but have no idea how to do it ☐ I have never seen this			

Main Topic: Linear Relationships (remember you must be able to APPLY each of these skills in real world situations)				
Algebra 1 Skills for Review	Best description of your goal mastery?			
I can solve single and multiple step linear equations • with integers, fractions or decimals) • apply them (word problems) • when variables are on both sides of equal sign I understand and can organize and use data in tables or a graph using	☐ I have 80%+ mastery of this without review ☐ I have 80%+ mastery of this after review ☐ I have 50-79% mastery of this after review ☐ I have 0-50% mastery of this after review ☐ I have en this but have no idea how to do it ☐ I have never seen this ☐ I have 80%+ mastery of this without review ☐ I have 80%+ mastery of this after review			
 Coordinate Plane Bar, circle & line Graphs 	☐ I have 50-79% mastery of this after review ☐ I have 0-50% mastery of this after review ☐ I've seen this but have no idea how to do it ☐ I have never seen this			
I can graph a linear equation if I am given Two points A table of values A point & the slope Slope-intercept form x-intercept & y-intercept	☐ I have 80%+ mastery of this without review ☐ I have 80%+ mastery of this after review ☐ I have 50-79% mastery of this after review ☐ I have 0-50% mastery of this after review ☐ I've seen this but have no idea how to do it ☐ I have never seen this			
I can write the equation of a line given Graph of the line Two points A table of values A point & the slope x-intercept & y-intercept that it is horizontal or vertical and a point on it	☐ I have 80%+ mastery of this without review ☐ I have 80%+ mastery of this after review ☐ I have 50-79% mastery of this after review ☐ I have 0-50% mastery of this after review ☐ I've seen this but have no idea how to do it ☐ I have never seen this			
I understand, can find, use/interpret a line's slope given Graph of line Table of values Two points on line	☐ I have 80%+ mastery of this without review ☐ I have 80%+ mastery of this after review ☐ I have 50-79% mastery of this after review ☐ I have 0-50% mastery of this after review ☐ I've seen this but have no idea how to do it ☐ I have never seen this			
I understand functions including • Function notation • What defines a function • How to evaluate a function for a given value	☐ I have 80%+ mastery of this without review ☐ I have 80%+ mastery of this after review ☐ I have 50-79% mastery of this after review ☐ I have 0-50% mastery of this after review ☐ I've seen this but have no idea how to do it ☐ I have never seen this			
I know and can choose and use the most appropriate form of a linear equation Slope-intercept Standard Point-Slope	☐ I have 80%+ mastery of this without review ☐ I have 80%+ mastery of this after review ☐ I have 50-79% mastery of this after review ☐ I have 0-50% mastery of this after review ☐ I've seen this but have no idea how to do it ☐ I have never seen this			
I understand and can use slopes to determine the relationship between lines as parallel, perpendicular or neither.	☐ I have 80%+ mastery of this without review ☐ I have 80%+ mastery of this after review ☐ I have 50-79% mastery of this after review ☐ I have 0-50% mastery of this after review ☐ I've seen this but have no idea how to do it ☐ I have never seen this			
I understand, can write, solve and graph linear inequalities in one variable including simple, multiple- step and compound	☐ I have 80%+ mastery of this without review ☐ I have 80%+ mastery of this after review ☐ I have 50-79% mastery of this after review ☐ I have 0-50% mastery of this after review ☐ I've seen this but have no idea how to do it ☐ I have never seen this			
I understand systems of linear equations and can solve them (by any method) and can choose the best solution method • Graphing • Combination/elimination • Substitution I can interpret the results in context of the problem and its graph	☐ I have 80%+ mastery of this without review ☐ I have 80%+ mastery of this after review ☐ I have 50-79% mastery of this after review ☐ I have 0-50% mastery of this after review ☐ I've seen this but have no idea how to do it ☐ I have never seen this			

Main Topic: Quadratic Relationships (remember you must be able to APPLY each of these skills in real world situations)				
Algebra 1 Skills for Review	Review Problems (choose the review problems most appropriate for you)	Best description of your goal mastery?		
I can sketch the graph of a quadratic function and identify and interpret its important features including • Vertex & axis of symmetry • Width • Intercepts (both x & y)	p. 945, #1-7 p. 249-255 (section 5.1)	☐ I have 80%+ mastery of this without review ☐ I have 80%+ mastery of this after review ☐ I have 50-79% mastery of this after review ☐ I have 0-50% mastery of this after review ☐ I've seen this but have no idea how to do it ☐ I have never seen this		
I can find the solution(s) of a quadratic equation using any method • Finding square roots • Graph • Quadratic formula	p. 264-270 (section 5.3)	 I have 80%+ mastery of this without review I have 80%+ mastery of this after review I have 50-79% mastery of this after review I have 0-50% mastery of this after review I've seen this but have no idea how to do it I have never seen this 		
I know, can use and interpret the results from using the quadratic formula and can also use the discriminant to determine the number and type of solutions	p.291-298 (section 5.6)	☐ I have 80%+ mastery of this without review ☐ I have 80%+ mastery of this after review ☐ I have 50-79% mastery of this after review ☐ I have 0-50% mastery of this after review ☐ I've seen this but have no idea how to do it ☐ I have never seen this		
I can factor a quadratic (any leading coefficient) using • GCF • Special patterns • Your favorite method for Generic Quadratics (guess & check, 9-box, AC/British, other?) and use the factors to solve the quadratic	p. 938, #1-30 p. 945, #10-29 p. 256-263 (section 5.2)	☐ I have 80%+ mastery of this without review ☐ I have 80%+ mastery of this after review ☐ I have 50-79% mastery of this after review ☐ I have 0-50% mastery of this after review ☐ I've seen this but have no idea how to do it ☐ I have never seen this		
I can add, subtract, multiply and simplify simple polynomials	p.936-937, #1-28 p. 937, #1-21 p. 940, #19-24	☐ I have 80%+ mastery of this without review ☐ I have 80%+ mastery of this after review ☐ I have 50-79% mastery of this after review ☐ I have 0-50% mastery of this after review ☐ I've seen this but have no idea how to do it ☐ I have never seen this		

Extra Online Resources:

- 1.) Algebra 2, http://glencoe.mheducation.com/sites/0078778565/sitemap.html?resource=extraexamples
- 2.) Algebra 1,

http://www.glencoe.com/sec/math/algebra/algebra1/algebra1_05/extra_examples/index.php4/na

Classroom Rules

- Ask questions
- Practice mathematics daily
- Support mathematics with proper justification
- Participate in the process of learning mathematics
- Be cooperative in the learning process
- Learn from mistakes through correction process
- Be prepared to learn with appropriate tools and required materials daily
- Seek help appropriately
- Be on time & timely in completion of makeup work
- All class materials will be returned before the end of class

Classroom Procedures

- Students will participate in daily classroom activities.
- Students will cooperate with all classmates and teacher in the learning process.
- Students will maintain and bring a notebook of examples and notes daily
- Students will correct mistakes with or without solution guides

Daily Practice of Mathematics

- Students are expected practice and show evidence of practice DAILY
- Students will use a variety methods to demonstrate evidence of daily practice
 - a. ICE breakers
 - b. Quick poll
 - c. Informal assessment
 - d. Graphic Organizer
 - e. Group Challenge
- Students are expected to check odd- numbered answers with text prior to next day's discussion

Office Hours

Mr. Hickman will be available after-school most days for additional assistance during GP 1, GP 2, most of GP 3.

Mr. Hickman will be available before school by appointment and require a pass from Mr. Hickman

GP 4 assistance will be given before school

Required Materials

- Mathematics Text (students will be informed if text is required for daily classroom use)
- Pencil and paper
- Any handouts from Mr. Hickman
- Mathematics ONLY 3-Ring Binder
- Scientific calculator with two line display
- RHS Student Planner

Students that arrive to class without materials and ask to return to locker to get materials are subject to a tardy/conference/referral

Technology Procedures

- Students will support mathematics using a wide variety of technology.
- Learn how to use technology to support mathematics dynamically
- Learn how to use technology to support mathematical growth and comprehension checks

OFF and OUT of SIGHT Policy

- School policy is that earbuds, laptops, tablets, and cell phones are to be off and out of sight from 7:30am to 2:30 pm
- Students that have these devices in class are subject to electronics discipline referrals.
- Methods of concealing/hiding electronic devices for use during class will not be tolerated.
 (book barricade, open purses/bags on desktop, etc., hoodies with built in earphones, etc.)
- Charging of electronic devices will NOT be allowed
- Choice of attire and size of cellphone or other electronic devices does not allow student to violate OFF and OUT of sight policy

. Email Address

shad.hickman@psd150.org

Web Page

www.psd150.org//Domain/496

Mr. Hickman will post materials for class on the Richwoods High School Website under Staff Tab.

Grade Distribution:

15% hwk/in class work 10% Participation 25% Quiz 50% Test