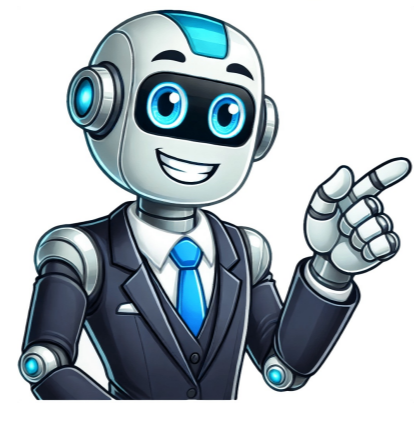


I'm not a bot













## Matt's math lab

Georgia Standards of Excellence (Click to Expand) MGSE9-12.A.SSE.1 Interpret expressions that represent a quantity in terms of its context. MGSE9-12.A.SSE.1a Interpret parts of an expression, such as terms, factors, and coefficients, in context. MGSE9-12.F.IF.7c Graph polynomial functions, identifying zeros when suitable factorizations are available, and showing end behavior. MGSE9-12.A.SSE.1b Given situations which utilize formulas or expressions with multiple terms and/or factors, interpret the meaning (in context) of individual terms or factors. MGSE9-12.F.IF.4 Using tables, graphs, and verbal descriptions, interpret the key characteristics of a function which models the relationship between two quantities. Sketch a graph showing key features including: intercepts; interval where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior; and periodicity. MGSE9-12.F.IF.7 Graph functions expressed algebraically and show key features of the graph both by hand and by using technology. I created this web-site to share some of these resources that specifically relate to the new Georgia Standards of Excellence. Here is a list of the courses I will be working towards creating resources: Georgia Standards of Excellence (Click to Expand)MGSE9-12.N.CN.1: Understand there is a complex number  $i$  such that  $i^2 = -1$ , and every complex number has the form  $a + bi$  where  $a$  and  $b$  are real numbers. MGSE9-12.N.CN.2: Use the relation  $i^2 = -1$  and the commutative, associative, and distributive properties to add, subtract, and multiply complex numbers. MGSE9-12.N.CN.3: Find the conjugate of a complex number; use the conjugate to find the absolute value (modulus) and quotient of complex numbers. Matt's Math Lab. Web my name is matthew m. Over the last several years, I have. Math Lab YouTube I have been teaching high school mathematics since 1993. I have been teaching high school mathematics since 1993. Over the last several years, I have. My name is matthew m. Web my name is matthew m. Complex operations & equations ( doc, pdf, key) georgia standards of excellence. Over the last several years, I have. I have been teaching high school mathematics since 1993. Complex operations & equations ( doc, pdf, key) georgia standards of excellence. Web my name is matthew m. My name is matthew m. Over the last several years, I have. I have been teaching high school mathematics since 1993. Complex operations & equations ( doc, pdf, key) georgia standards of excellence. Complex operations & equations ( doc, pdf, key) georgia standards of excellence. I have been teaching high school mathematics since 1993. My name is matthew m. Web my name is matthew m. Over the last several years, I have. I have been teaching high school mathematics since 1993. I have been teaching high school mathematics since 1993. Complex operations & equations ( doc, pdf, key) georgia standards of excellence. Complex operations & equations ( doc, pdf, key) georgia standards of excellence. I have been teaching high school mathematics since 1993. I have been teaching high school mathematics since 1993. Complex operations & equations ( doc, pdf, key) georgia standards of excellence. Web my name is matthew m. My name is matthew m. Over the last several years, I have. More articles : Georgia Standards of Excellence (Click to Expand) MGSE9-12.F.IF.8b Use the properties of exponents to interpret expressions for exponential functions. For example, identify percent rate of change in functions such as  $y = (1.02)^t$ ,  $y = (0.97)^t$ ,  $y = (1.01)^{(12t)}$ ,  $y = (1.2)^{(t/10)}$ , and classify them as representing exponential growth and decay. MGSE9-12.F.LE.4 For exponential models, express as a logarithm the solution to  $ab^{ct} = d$  where  $a$ ,  $c$ , and  $d$  are numbers and the base  $b$  is 2, 10, or  $e$ ; evaluate the logarithm using technology. MGSE9-12.A.SSE.3c Use the properties of exponents to transform expressions for exponential functions. For example, the expression  $1.15^t$ , where  $t$  is in years, can be rewritten as  $[1.15^{(1/12)}]^{(12t)} \approx 1.012^{(12t)}$  to reveal the approximate equivalent monthly interest rate if the annual rate is 15%. MGSE9-12.A.CED.1 Create equations and inequalities in one variable and use them to solve problems. Include equations arising from linear, quadratic, simple rational, and exponential functions. Georgia Standards of Excellence (Click to Expand)MGSE9-12.F.BF.1 Write a function that describes a relationship between two quantities. MGSE9-12.F.BF.1b Combine standard function types using arithmetic operations in contextual situations (Adding, subtracting, and multiplying functions of different types). MGSE9-12.F.DF.1c Compose functions. For example, if  $T(y)$  is the temperature in the atmosphere as a function of height, and  $h(t)$  is the height of a weather balloon as a function of time, then  $T(h(t))$  is the temperature at the location of the weather balloon as a function of time. Use the link below that corresponds to your student's school for Remind101 instructions Menlo Remind101 Instructions The link below will take you to the Georgia DOE site that will allow access to information provided by the State Georgia Milestone EOC Resources USA TestPrep Practice Test EOC PRACTICE PROBLEMS A-E EOC PRACTICE PROBLEMS F-EE EOC PRACTICE ANSWERS F-EE VIDEOS OF PRACTICE PROBLEMS Use the 2 links below to access the Gradpoint resources for completing lessons Use the iXL link below to practice topics covered in this course The link below will provide you with practice questions that address fundamental math ideas ONLINE GRAPHING CALCULATOR UNIT 1 Walch Student Resource Unit 1 Structure of Expressions: Walch 1.3 Resources Interactive Algebra Tiles POLYNOMIAL INTRO: TERMS, FACTORS, COEFFICIENTS WALCH 1.3.1 WARM-UP WALCH 1.3.1 WARM-UP VIDEO WALCH 1.3.1 SCAFFOLDED PRACTICE WALCH 1.3.1 SCAFFOLDED PRACTICE WALCH 1.3.1 SCAFFOLDED KEY WALCH 1.3.1 SCAFFOLDED VIDEO 1 Walch 1.3.1 scaffolded video 2 & 3 Walch 1.3.1 Scaffolded PPT WALCH 1.3.1 PRACTICE SET AND IXL Walch 1.3.1 Practice Set A and B Walch Practice Set A and B key NAMES AND DEGREE OF POLYNOMIAL NOTES IXL ALGEBRA 1 Z.1 WALCH 1.3.1 TASK Walch 1.3.1 Problem Based Task Walch 1.3.1 Problem Based Task Coaching ADDING AND SUBTRACTING POLYNOMIALS WALCH 1.3.2 WARM-UP walch 1.3.2 warm up video WALCH 1.3.2 GUIDED PRACTICE WALCH 1.3.2 GUIDED PRACTICE WALCH 1.3.2 GUIDED PRACTICE KEY WALCH 1.3.2 GUIDED PRACTICE PPT walch 1.3.2 guided practice video WALCH 1.3.2 PRACTICE SET AND IXL IXL ALGEBRA 1: Z.2 Z.3 Z.4 Z.5 WALCH 1.3.2 PRACTICE SET A & B walch 1.3.2 PRACTICE SET A IXL ASSIGNMENT: ALGEBRA 1 S.10, S.11, S.12 SMARTSCORE OF 60-65 WRITING AND GRAPHING COACHING walch 1.3.2 problem based task key MULTIPLYING POLYNOMIALS WALCH 1.3.3 WARM-UP WALCH 1.3.3 GUIDED PRACTICE VIDEO TUTORIAL USING AREA MODEL VIDEO TUTORIAL USING FOIL WALCH 1.3.3 GUIDED PRACTICE WALCH 1.3.3 GUIDED PRACTICE KEY WALCH 1.3.3 PRACTICE SET AND IXL WALCH 1.3.3 PRACTICE SET A WALCH 1.3.3 PRACTICE SET B IXL ALGEBRA 1: Z.6 Z.7 Z.8 Z.9 Z.10 WALCH 1.3.3 TASK AND GSE FRAMEWORKS TASK WALCH 1.3.3 PROBLEM BASED TASK WALCH 1.3.3 PROBLEM BASED TASK COACHING WALCH 1.3.3 PROBLEM BASED TASK KEY POLYNOMIAL PATTERNS GSE FRAMEWORKS TASK MODELING POLYNOMIALS GSE FRAMEWORKS TASK USATESTPREP POLYNOMIAL ADDITION AND POLYNOMIAL SUBTRACTION ASSIGNMENT TILING POOLS CULMINATION TASK Polynomial Operations Quiz SIMPLIFY RADICALS AND RADICAL EXPRESSIONS CONCEPT BUILDING WALCH INTRODUCTION AND KEY CONCEPTS VISUALIZING SQUARE ROOTS GSE TASK RULES AND PRACTICE EXAMPLES PRACTICE EXAMPLES ANSWER KEY IXL ALGEBRA 1: EE.1, EE.2, EE.3, EE.4,EE.5 and EE.6 SMARTSCORE OF 70 WALCH 1.1.1 WARM-UP WALCH 1.1.1 GUIDED PRACTICE WALCH 1.1.1 GUIDED PRACTICE WALCH 1.1.1 GUIDED PRACTICE KEY WALCH 1.1.1 GUIDED PRACTICE PPT WALCH 1.1.1 PRACTICE SET WALCH 1.1.1 PRACTICE SET A WALCH 1.1.1 PRACTICE SET B WALCH 1.1.1 PROBLEM BASED TASK WALCH 1.1.1 PROBLEM BASED TASK COACHING WALCH 1.1.1 PROBLEM BASED TASK COACHING WALCH 1.1.1 PROBLEM BASED TASK KEY USATESTPREP RADICAL EXPRESSIONS PRACTICE ASSIGNMENT (CODE: PUYAWOTELA ) USATESTPREP QUIZ PAPER COPY RATIONAL AND IRRATIONAL RATIONAL AND IRRATIONAL NOTES SORTING RATIONAL AND IRRATIONAL IXL: PRECALCULUS Q.1 RATIONAL AND IRRATIONAL SYSTEM CLOSURE VIDEO RATIONAL AND IRRATIONAL CLOSURE NOTES AND PRACTICE RATIONAL AND IRRATIONAL CLOSURE PRACTICE KEY Rational vs. Irrational #'s Slideshow CLASSIFY RATIONAL AND IRRATIONAL UNDER ARITHMETIC OPERATIONS IXL: PRECALCULUS Q.2 AND Q.3 USATEST PREP PERFORMANCE TASK ON SORTING RATIONAL AND IRRATIONAL AND 10 MULTI-CHOICE ON RATIONAL AND IRRATIONAL CLOSURE Example of Sum and Product of R & I OPERATIONS WITH RATIONAL AND IRRATIONAL KEY UNIT CONVERSION AND DIMENSIONAL ANALYSIS walch 1.2.1 Introduction and key concepts UNIT CONVERSION EXAMPLE VIDEO walch 1.2.1 WARM-UP WALCH 1.2.1 GUIDED PRACTICE walch 1.2.1 guided practice WALCH 1.2.1 GUIDED PRACTICE KEY walch 1.2.1 guided practice ppt WALCH 1.2.1 PRACTICE SET AND ADDITIONAL PRACTICE WALCH 1.2.1 PRACTICE SET A WALCH 1.2.1 PRACTICE SET B IXL ALGEBRA 1: E.3 WALCH 1.2.1 PROBLEM BASED TASK WALCH 1.2.1 PROBLEM BASED TASK WALCH 1.2.1 PROBLEM BASED TASK COACHING WALCH 1.2.1 PROBLEM BASED TASK KEY INTERPRETING COMPLICATED EXPRESSIONS walch 1.3.4 practice set a UNIT 2 CONVERTING LINEAR EQUATIONS AND INEQUALITIES IN ONE VARIABLE WALCH 2.1.1 WARM-UP IXL ALGEBRA 1: I.4 and J.3 SMARTSCORE 40-50 WALCH 2.1.1 GUIDED PRACTICE walch 2.1.1 guided practice WALCH 2.1.1 GUIDED PRACTICE KEY WALCH 2.1.1 GUIDED PRACTICE PPT WALCH 2.1.1 PRACTICE SET WALCH 2.1.1 TASK WALCH 2.1.1 PROBLEM BASED TASK WALCH 2.1.1 PROBLEM BASED TASK COACHING WALCH 2.1.1 PROBLEM BASED TASK KEY WALCH 2.1.2 WARM-UP WALCH 2.1.2 GUIDED PRACTICE WALCH 2.1.2 GUIDED PRACTICE KEY WALCH 2.1.2 GUIDED PRACTICE PPT WALCH 2.1.2 PRACTICE SET WALCH 2.1.2 PRACTICE SET A WALCH 2.1.2 PRACTICE SET B WALCH 2.1.2 PROBLEM BASED TASK WALCH 2.1.2 PROBLEM BASED TASK WALCH 2.1.2 PROBLEM BASED TASK COACHING WALCH 2.1.2 PROBLEM BASED TASK COACHING WALCH 2.1.2 PROBLEM BASED TASK KEY USATESTPREP BENCHMARKS: TRANSLATING EXPRESSIONS LEVEL 1 CODE: FABOFFEJOU AND CREATING EQUATIONS AND INEQUALITIES IN ONE VARIABLE LEVEL 1 CODE: CODOCUZOZE GSE FRAMEWORKS TASK ACTING OUT, LUCY'S LINEAR EQUATIONS AND INEQUALITIES AND JADEN'S PHONE PLAN IXL SKILL BUILDING SOLVING EQUATIONS: ALGEBRA 1 J.10, J.11, K.6, K.8, K.11 CREATING AND GRAPHING LINEAR EQUATIONS IN TWO VARIABLES WALCH 2.2.1 INTRODUCTION AND KEY CONCEPTS WALCH 2.2.1 WARM-UP WALCH 2.2.1 GUIDED PRACTICE KEY WALCH 2.2.1 PRACTICE SET AND IXL WALCH 2.2.1 PRACTICE SET A IXL ASSIGNMENT: ALGEBRA 1 S.10, S.11, S.12 SMARTSCORE OF 60-65 WRITING AND GRAPHING LINEAR EQUATIONS GIVEN SLOPE AND INTERCEPT OR TABLE: IXL ALGEBRA 1 S.5, S.6, S.9 GIVEN A GRAPH OR TWO POINTS: IXL ALGEBRA 1 S.3 AND S.7 STANDARD AND POINT-SLOPE FORM: IXL ALGEBRA 1 S.8, S.11, S.21, S.22 HORIZONTAL AND VERTICAL AND ADDITIONAL STANDARD FORM: IXL ALGEBRA 1 S.15, S.17, S.18, S.19 PROGRESS ASSESSMENT ON LINEAR EQUATIONS. USATEST PREP BENCHMARK CODE: WALUBAJAKE CREATING AND GRAPHING LINEAR EQUATIONS SOLVING SYSTEM OF EQUATIONS BY SUBSTITUTION AND ELIMINATION WALCH 2.7.2 INTRODUCTION AND KEY CONCEPTS WALCH 2.7.2 GUIDED PRACTICE WALCH 2.7.2 GUIDED PRACTICE KEY WALCH 2.7.2 PRACTICE SET A WALCH 2.7.2 LESSON PROGRESS ASSESSMENT ASSIGNED IN WALCH CONNECT IXL PROGRESS ASSESSMENT GRAPHING SYSTEMS: U.2-3 ITEMS, U.3-3 ITEMS, U.4-2 ITEMS, U.5-2 ITEMS SOLVING SYSTEMS OF EQUATIONS PROGRESS ASSESSMENT REPRESENTING CONSTRAINTS SOLVING SYSTEM OF INEQUALITIES BY GRAPHING WALCH 2.8.2 PRACTICE SET A WALCH 2.8.2 PRACTICE SET B LINEAR INEQUALITIES PROGRESS ASSESSMENT PROPERTIES OF EQUALITY INTRODUCTION AND KEY CONCEPTS WALCH 2.4.1 WARM-UP WALCH 2.4.1 GUIDED PRACTICE WALCH 2.4.1 GUIDED PRACTICE KEY WALCH 2.4.1 PRACTICE SET WALCH 2.4.1 PRACTICE SET A WALCH 2.4.1 PRACTICE SET B WALCH 2.4.1 PROBLEM BASED TASK WALCH 2.4.1 PROBLEM BASED TASK WALCH 2.4.1 PROBLEM BASED TASK COACHING WALCH 2.4.1 PROBLEM BASED TASK COACHING WALCH 2.4.1 PROBLEM BASED TASK KEY REARRANGING FORMULAS WALCH 2.5.1 PROBLEM BASED TASK WALCH 2.5.1 PRACTICE SET A IXL ALGEBRA 1.8- SMARTSCORE OF 70 FUNCTIONS AND FUNCTION NOTATION IXL FUNCTION ASSIGNMENT: ALGEBRA 1 Q.2,4,5,7,8 SMARTSCORE OF 70 EACH WALCH 2.6.2 GUIDED PRACTICE A WALCH 2.6.3 PRACTICE SET A WALCH 2.6 PROGRESS ASSESSMENT CHARACTERISTICS OF LINEAR FUNCTIONS WALCH 2.10.1 INTRODUCTION AND KEY CONCEPTS WALCH 2.10.1 PRACTICE SET A WALCH 2.10.2 INTRODUCTION AN KEY CONCEPTS WALCH 2.10.2 PRACTICE SET A DOMAIN AND RANGE PRACTICE DOMAIN AN RANGE PRACTICE KEY DESCRIBE FUNCTIONS PRACTICE DESCRIBE FUNCTIONS PRACTICE KEY ARITHMETIC SEQUENCE WALCH 2.9.1 INTRODUCTION AND KEY CONCEPTS 2.9.1 GUIDED PRACTICE KEY WALCH 2.9.2 WALCH 2.9.2 PRACTICE SET A MATT'S MATH LAB SEQUENCE PRACTICE ARITHMETIC SEQUENCE IXL ASSIGNMENT: ALGEBRA 1 P.2,4,5 UNIT 2 STUDY GUIDE UNIT 2 STUDY GUIDE PART 1 UNIT 2 STUDY GUIDE PART 2 LINEAR EQUATION WORD PROBLEM EXAMPLES PROGRESS ASSESSMENT-EQUATIONS SYSTEM OF EQUATIONS BY SUBSTITUTION PRACTICE SYSTEM OF EQUATIONS BY ELIMINATION UNIT 3 QUADRATICS INTRO TO QUADRATICS PROJECT TUTORIAL SITE WITH PAGES AND VIDEO WALCH 3.1.1 INTRO AND KEY CONCEPTS WALCH 3.1.1 GUIDED PRACTICE WALCH 3.1.1 GUIDED PRACTICE KEY WALCH 3.1.1 PRACTICE SET A WALCH 3.1.1 PROBLEM BASED TASK Georgia Standards of Excellence (Click to Expand) MGSE9-12.N.Q.2: Define appropriate quantities for the purpose of descriptive modeling. Given a situation, context, or problem, students will determine, identify, and use appropriate quantities for representing the situation. MGSE9-12.A.SSE.1b: Given situations which utilize formulas or expressions with multiple terms and/or factors, interpret the meaning (incontext) of the individual terms or factors. CALCULATOR RESOURCES USATESTPREP THE LISTING BELOW ARE CODES FOR USATESTPREP PRACTICE ASSESSMENTS ALGEBRA 1 FULL LENGTH PRACTICE TEST: WARAKAXUHU UNIT 1 REVIEW: UNIT 2 REVIEW: UNIT 3 REVIEW: UNIT 4 REVIEW: UNIT 6 REVIEW: MIXED REVIEW THE LINKS BELOW PROVIDE ACCESS TO RESOURCES THAT COVER ALL UNITS OF THE COURSE IN A COMPREHENSIVE FORMAT USA TestPrep Practice Test MATT'S MATH LAB PRACTICE TEST (EXCEPT 2,36,49 TO 65) MATT'S MATH LAB PRACTICE TEST-KEY MATT'S MATH LAB QUADRATIC PRACTICE (ONLY 45-55) MATT'S MATH LAB QUADRATICS KEY Equations, Expressions, & Functions Domain Packet Algebra I Additional Practice Items DOE Study Guide RELEASED ITEMS (Look at all except 15-18.): RELEASED ITEMS (LOOK AT 10, 11,13,14) EOC PRACTICE PROBLEMS A-E EOC PRACTICE PROBLEMS F-EE EOC PRACTICE ANSWERS F-EE VIDEOS OF PRACTICE PROBLEMS THE LINKS BELOW PROVIDE ACCESS TO RESOURCES THAT ARE SPECIFIC TO EACH UNIT OF THE COURSE UNIT 1 QUIZZ CODES: MATT'S MATH LAB UNIT 1 (INCLUDES VIDEOS) UNIT 2 QUIZZ CODES: MATT'S MATH LAB UNIT 2 (INCLUDES VIDEO) UNIT 3 QUIZZ CODES: MATT'S MATH LAB UNIT 3 (INCLUDES VIDEO) UNIT 4 QUIZZ CODES: MATT'S MATH LAB UNIT 4 (INCLUDES VIDEO) UNIT 5 QUIZZ CODES: MATT'S MATH LAB UNIT 5 (INCLUDES VIDEOS) UNIT 6 QUIZZ CODES: MATT'S MATH LAB UNIT 6 (INCLUDES VIDEOS) Georgia Standards of Excellence (Click to Expand) MGSE9-12.A.SSE.4 Derive the formula for the sum of a finite geometric series (when the common ratio is not 1), and use the formula to solve problems. For example, calculate mortgage payments. MGSE9-12.A.CED.2 Create linear, quadratic, and exponential equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales. (The phrase "in two or more variables" refers to formulas like the compound interest formula, in which  $A = P(1 + r/n)^{nt}$  has multiple variables.) MGSE9-12.F.IF.9 Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). For example, given a graph of one function and an algebraic expression for another, say which has the larger maximum. LSEG has teamed up with Finmechanics, the Singapore headquartered provider of FM Converge, to help corporate treasuries reduce their liquidity and market risks, as well as their reliance on bulky, inefficient, spreadsheet-based processes. In partnership with Finmechanics, a leading provider of enterprise risk management systems, Refinitiv has enriched its desktop platform with a cross-asset treasury and risk service delivered over the cloud. Assign the 'orientation' homework that comes pre-built in all courses to help your students familiarize themselves with MyMathLab for School test. Georgia Standards of Excellence (Click to Expand) MGSE9-12.S.ID.4 Use the mean and standard deviation of a data set to fit it to a normal distribution and to estimate population percentages. Recognize that there are data sets for which such a procedure is not appropriate. Use calculators, spreadsheets, and tables to estimate areas under the normal curve. MGSE9-12.S.IC.1 Understand statistics as a process for making inferences about population parameters based on a random sample from that population. MGSE9-12.S.IC.2 Decide if a specified model is consistent with results from a given data-generating process, e.g., using simulation. For example, a model says a spinning coin falls heads up with probability 0.5. Would a result of 5 tails in a row cause you to question the model? MGSE9-12.S.IC.4 Use data from a sample survey to estimate a population mean or proportion; develop a margin of error through the use of simulation models for random sampling. Georgia Standards of Excellence (Click to Expand) MGSE9-12.A.CED.2 Create linear, quadratic, and exponential equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales. (Limit to rational and radical functions. The phrase "in two or more variables" refers to formulas like the compound interest formula, in which  $A = P(1 + r/n)^{nt}$  has multiple variables.) MGSE9-12.F.IF.7 Graph functions expressed algebraically and show key features of the graph both by hand and by using technology. MGSE9-12.F.IF.4 Using tables, graphs, and verbal descriptions, interpret the key characteristics of a function which models the relationship between two quantities. Sketch a graph showing key features including: intercepts; interval where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior; and periodicity. MGSE9-12.F.IF.7b Graph square root, cube root, and piecewise-defined functions, including step functions and absolute value function