

UNIT PLAN

The goal of this unit plan is to provide a clear and coherent plan for teachers to follow in order to ensure that students achieve mastery of the desired learning outcomes.

Unit Title:	Time Frame (Approximate Dates/Days):
Unit 10 Statistics	18 Days
Standards Addressed:	Sequence of Lesson Activities:
☐ HS.SP.1 ☐ HS.SP.2 ☐ HS.SP.3 ☐ HS.SP.6 ☐ HS.SP.7 ☐ HS.SP.8	☐ Illustrative Mathematics course work ☐ Statistical vs non-statistical questions ☐ Distinguish between numerical and categorical data. ☐ IM Lesson 5 calculating MAD ☐ IM Lesson 10: The Effect of Extremes
Skills to be Acquired:	Method to Assess Student Mastery:
☐ Construct Stem and Leaf Plot ☐ Construct dot plots and find measures of center from dot plots ☐ Construct histograms and answer statistical questions from histograms. ☐ Construct box plots and calculate interquartile range from box plots.	☐ Edulastic Test ☐ Quizzes ☐ Bellringers ☐ Exit Slips ☐ Class Discussion

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Unit Title:	Time Frame (Approximate Dates/Days):
Unit 1: Simplifying and Evaluating Expressions	11 Days
Standards Addressed:	Sequence of Lesson Activities:
☐ KY.HS.N.4 ☐ KY.HS.A.15	☐ KUTA Worksheets pertaining to Order of operations ☐ KUTA worksheets pertaining to evaluating expressions ☐ KUTA worksheet pertaining to writing variable expressions ☐ KUTA worksheets pertaining to simplifying expressions and using the distributive property
Skills to be Acquired:	Method to Assess Student Mastery:
☐ Students will be able to evaluate both numerical and algebraic expressions ☐ Students will be able to write variable expressions given a literal sentence and write a literal sentence given a variable expression. ☐ Students will be able to use the distributive property to simplify algebraic expressions.	☐ Edulastic ☐ Bellringer/Exit Slip ☐ Quizzes ☐ Class Discussion

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Unit Title:	Time Frame (Approximate Dates/Days):
Unit 2: The Cartesian Plane	5 Days
Standards Addressed:	Sequence of Lesson Activities:
☐ KY.HS.N.4 ☐ KY.HS.A.13 ☐ KY.HS.A.23	☐ Plotting Points on the Cartesian Plane ☐ Intro to the Coordinate Plane ☐ Quadrants of the Coordinate Plane ☐ Cartesian Plane City
Skills to be Acquired:	Method to Assess Student Mastery:
☐ Terminology related to the Cartesian Plane. ☐ Name quadrants and plot points specific to quadrants ☐ Relate some geometry to the Cartesian Plane with the Cartesian Plane City. ☐ Be able to cite which quadrants a graph of a linear equation goes through.	☐ Edulastic ☐ Bellringer/Exit Slips ☐ Quizzes ☐ Unit Test ☐ In class assignments

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Unit Title:	Time Frame (Approximate Dates/Days):
Unit 3: Arithmetic and Geometric Sequences	16 Days
Standards Addressed:	Sequence of Lesson Activities:
☐ KY.HS.F.2 ☐ KY.HS.F.6 ☐ KY.HS.F.12	☐ Arithmetic Sequence Notes ☐ Arithmetic Sequence Mystery ☐ 2 ☐ Kuta ☐ Advanced Algebra Prep ☐ Arithmetic Sequence Practice ☐ Arithmetic Sequence Puzzle ☐ Arithmetic Seq Quiz - Edulastic ☐ Geometric Sequence ☐ Geometric Sequence Practice ☐ Geometric Sequence Quiz - Edulastic ☐ More Arith&GeoSeq ☐ More Arith&GeoSeq ☐ Unit Test - Edulastic
Skills to be Acquired:	Method to Assess Student Mastery:
☐ To distinguish between arithmetic and geometric sequences ☐ Use the formulas to find a specific term for a sequence. ☐ Write the correct formula given the first few terms of a sequence. ☐ Apply sequences to real-world type problems.	☐ Edulastic ☐ Bellringer/Exit Slips ☐ Quizzes ☐ Google Form ☐ Google Slides ☐ Unit Test ☐ In class assignments

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Unit Title:	Time Frame (Approximate Dates/Days):
Unit 4: Equations and Inequalities	25 Days
Standards Addressed:	Sequence of Lesson Activities:
☐ KY.HS.A.12 ☐ KY.HS.A.15 ☐ KY.HS.A.16 ☐ KY.HS.A.18 ☐ KY.HS.A.13	☐ Vocabulary ☐ Solving 1-Step Equations ☐ Solving 2-Step Equations ☐ Solving 2-Step Equations ☐ Solving Multi-Step Equations ☐ Variables on Both Sides
Skills to be Acquired:	Method to Assess Student Mastery:
☐ Solve 1 and 2 step linear equations and inequalities ☐ Solve multi-step equations and inequalities ☐ Solve absolute value equations and inequalities ☐ Write linear equations and inequalities give real-world scenarios.	☐ Edulastic ☐ Bellringer/Exit Slips ☐ Quizzes ☐ Google Form ☐ Google Slides ☐ Unit Test ☐ In class assignments

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Unit Title:	Time Frame (Approximate Dates/Days):
Unit 5: Graphing linear equations and inequalities	
Standards Addressed:	Sequence of Lesson Activities:
☐ KY.HS.A.13 ☐ KY.HS.A.14 ☐ KY.HS.A.2 ☐ KY.HS.A.23 ☐ KY.HS.A.24 ☐ KY.HS.A.25 ☐ KY.HS.SP.7	☐ Slope as a Rate of Change ☐ Write linear equations in different forms give different parameters about the graph ☐ Graph from slope-intercept form ☐ Graph from other forms
Skills to be Acquired:	Method to Assess Student Mastery:
☐ Create and graph equations ☐ Justify solutions from a graph ☐ Graph solutions ☐ Writing and combining different equations (point slope/slope intercept/standard form) ☐ Parallel and perpendicular	☐ Fist to Five ☐ Bellringers/Exit Slips ☐ Edulastic Test ☐ Quizzes

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Unit Title:	Time Frame (Approximate Dates/Days):
Unit 6 Rules of Exponents	7 Days
Standards Addressed:	Sequence of Lesson Activities:
☐ KY.HS.F.5 ☐ KY.HS.N.1 ☐ KY.HS.N.2 ☐ KY.HS.A.3	☐ Multiplication rule ☐ Quotient rule ☐ Power to power ☐ Zero exponent rule ☐ Negative exponents ☐ Simplifying
Skills to be Acquired:	Method to Assess Student Mastery:
☐ Students will simplify algebraic expressions involving rules of exponents. ☐ Students will need to know how to apply the rules to write expressions in simplest form.	☐ Bellringers/Exit Slips ☐ Quizzes ☐ Unit Assessment ☐ Fist to Five ☐ Assignments

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☐	☐
Skills to be Acquired:	Method to Assess Student Mastery:
☐	☐

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☐	☐