Algebra 2 To-Do List

Pre-Unit – Basic Arithmetic/Algebra
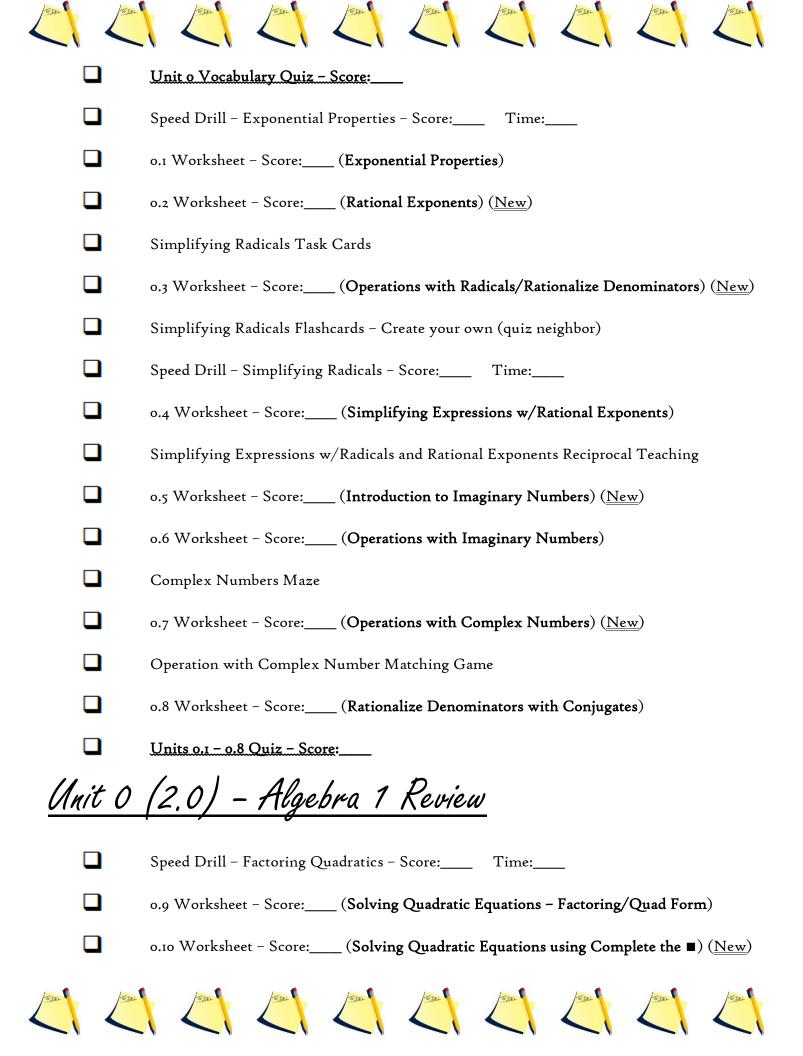
Check if Done	ITEM TO DO
❑	Pre-1 Worksheet – Score:_____ (**Perfect Squares/Perfect Cubes**)
❑	Speed Drill – Finding Perfects and Roots – Score:_____ Time:_____
❑	Pre-2 Worksheet – Score:_____ (**GCF and LCM**)
❑	GCF and LCM Task Cards
❑	Pre-3 Worksheet – Score:_____ (**Solving Linear Equations/Inequalities**)
❑	Solving Linear Equations Relay Race
❑	Pre-4 Worksheet – Score:_____ (**Operations with Polynomials**)
❑	Pre-5 Worksheet – Score:_____ (**Evaluating Functions**)
❑	Speed Drill – Distributive Property – Score:_____ Time:_____
❑	Pre-6 Worksheet – Score:_____ (**Factoring Simple Quadratics**)
❑	Speed Drill – Factoring Monic-Quadratics – Score:_____ Time:_____
❑	Pre-7 Worksheet – Score:_____ (**Linear Equations**)
❑	Pre-8 Worksheet – Score:_____ (**Algebra 1 Parent Functions**)
❑	**Unit Pre-Unit Quiz – Score:_____**

Unit 0 – Algebra 1 Review

Check if Done	ITEM TO DO
❑	Unit 0 Vocabulary List

- ☐ <u>Unit 0 Vocabulary Quiz – Score:_____</u>

- ☐ Speed Drill – Exponential Properties – Score:_____   Time:_____

- ☐ 0.1 Worksheet – Score:_____ (**Exponential Properties**)

- ☐ 0.2 Worksheet – Score:_____ (**Rational Exponents**) (<u>New</u>)

- ☐ Simplifying Radicals Task Cards

- ☐ 0.3 Worksheet – Score:_____ (**Operations with Radicals/Rationalize Denominators**) (<u>New</u>)

- ☐ Simplifying Radicals Flashcards – Create your own (quiz neighbor)

- ☐ Speed Drill – Simplifying Radicals – Score:_____   Time:_____

- ☐ 0.4 Worksheet – Score:_____ (**Simplifying Expressions w/Rational Exponents**)

- ☐ Simplifying Expressions w/Radicals and Rational Exponents Reciprocal Teaching

- ☐ 0.5 Worksheet – Score:_____ (**Introduction to Imaginary Numbers**) (<u>New</u>)

- ☐ 0.6 Worksheet – Score:_____ (**Operations with Imaginary Numbers**)

- ☐ Complex Numbers Maze

- ☐ 0.7 Worksheet – Score:_____ (**Operations with Complex Numbers**) (<u>New</u>)

- ☐ Operation with Complex Number Matching Game

- ☐ 0.8 Worksheet – Score:_____ (**Rationalize Denominators with Conjugates**)

- ☐ <u>Units 0.1 – 0.8 Quiz – Score:_____</u>

<u>Unit 0 (2.0) – Algebra 1 Review</u>

- ☐ Speed Drill – Factoring Quadratics – Score:_____   Time:_____

- ☐ 0.9 Worksheet – Score:_____ (**Solving Quadratic Equations – Factoring/Quad Form**)

- ☐ 0.10 Worksheet – Score:_____ (**Solving Quadratic Equations using Complete the ■**) (<u>New</u>)

- ❑   0.11 Worksheet – Score:____ (**Solving Quadratics Using Correct Method**)

- ❑   Solving by Completing the Square Scavenger Hunt

- ❑   0.12 Worksheet – Score:____ (**Solving Absolute Value Equations and Inequalities**) (<u>New</u>)

- ❑   0.13 Worksheet – Score:____ (**Solving Exponential Equations – Change/Same Base**) (<u>New</u>)

- ❑   0.14 Worksheet – Score:____ (**Solving Radical Equations – not using rational exponents**)

- ❑   0.15 Worksheet – Score:____ (**Solving Radical Equations – using rational exponents**)

- ❑   0.16 Worksheet – Score:____ (**Solving Rational Equations**) (<u>New</u>)

- ❑   Solving all Types of Equations Scavenger Hunt

- ❑   <u>Units 0.7 – 0.17 Quiz – Score:____</u>

Unit 0 (3.0) – Algebra 1 Review

- ❑   0.17 Worksheet – Score:____ (**Solving Systems (all) and Inequalities**)

- ❑   Solving Systems in a Calculator Investigation

- ❑   0.18 Worksheet – Score:____ (**Matrices – Operations with Matrices – Add and Subtract**)

- ❑   0.19 Worksheet – Score:____ (**Multiplying Matrices**) (<u>New</u>)

- ❑   0.20 Worksheet – Score:____ (**Solving Systems with the use of Matrices**)

- ❑   0.21 Worksheet – Score: ____ (**Gaussian Elimination Method**)

- ❑   0.22 Worksheet – Score:____ (**Matrices in the Calculator**) (<u>New</u>)

- ❑   Unit 0 Checklist (**I got this! – Sort of – NO Idea**)

- ❑   <u>Unit 0 Exam – Score:____</u>

- ❑   Unit Test Reflection Sheet

Unit 1 – All Things Quadratic and Other Polys

Check if Done   **ITEM TO DO**

❑   Unit 1 Vocabulary List

❑   <u>Unit 1 Vocabulary Quiz – Score:_____</u>

❑   1.0 Worksheet – Score:_____ (**Solving Easy Quadratics w/Application ?'s**)

❑   Solving Quadratics using Square Root Prop. Reciprocal Teaching

❑   1.1 Worksheet – Score:_____ (**Standard Form and all it gives us**)

❑   1.2 Worksheet – Score:_____ (**All Types of Factoring of Quadratic/Cubic**)

❑   Speed Drill – <u>**Factoring Patterns**</u> – Score:_____   Time:_____

❑   1.3 Worksheet – Score:_____ (**Using Factored Form to find roots/zeros/solutions/x-int**)

❑   Quadratic Reciprocal Teaching

❑   1.4 Worksheet – Score:_____ (**Completing the Square**)

❑   <u>Units 1.0 – 1.4 Quiz – Score:_____</u>

❑   1.5 Worksheet – Score:_____ (**Transforming from one Form to the other**)

❑   Translation/Transformations of Quadratic Parent Desmos Investigation

❑   Quadratic Matching Game

❑   1.6 Worksheet – Score:_____ (**Analyzing Quadratic Functions – Part 1**)

❑   1.7 Worksheet – Score:_____ (**Analyzing Quadratic Functions – Part 2**)

❑   Unit 1 Checklist (**I got this! – Sort of – NO Idea**)

❑   <u>Unit 1 Exam – Score:_____</u>

❑   Unit Test Reflection Sheet

Unit 2 – Function Formulas

Check if Done	ITEM TO DO
❏	Unit 2 Vocabulary List
❏	**Unit 2 Vocabulary Quiz – Score:_____**
❏	2.0 Worksheet – Score:_____ (**Functions in Tables**)
❏	2.1 Worksheet – Score:_____ (**Creating Functions from Tables**)
❏	I Wear my Sunglasses at Night – Double Sunglasses (**3 Act**)
❏	2.2 Worksheet – Score:_____ (**Explicit Form vs. Recursive Form from Tables**)
❏	Function Table Task Cards – Create your own (quiz a neighboring group)
❏	2.3 Worksheet – Score:_____ (**Introduction to Sequencing and Evaluating**)
❏	2.4 Worksheet – Score:_____ (**Arithmetic and Geometric Sequences (Recursive)**)
❏	2.5 Worksheet – Score:_____ (**Direct vs. Indirect Variations**)
❏	Sugar Packets (**3 Act**)
❏	**Units 2.0 – 2.5 Quiz – Score:_____**
❏	2.6 Worksheet – Score:_____ (**Operations with Functions**)
❏	2.7 Worksheet – Score:_____ (**Composition of Functions**)
❏	Operations with Functions Graphing Investigation
❏	Towering Numbers Activity
❏	2.8 Worksheet – Score:_____ (**Regression Equations**)
❏	2.9 Worksheet – Score:_____ (**Application Questions – All Types (Linear, Quad, Expo)**)
❏	Will it Hit the Hoop? (**3 Act**)

❑ Quadratic Project with Real-Life Example (QuadReg)

❑ Unit 2 Checklist (**I got this! – Sort of – NO Idea**)

❑ <u>Unit 2 Exam – Score:____</u>
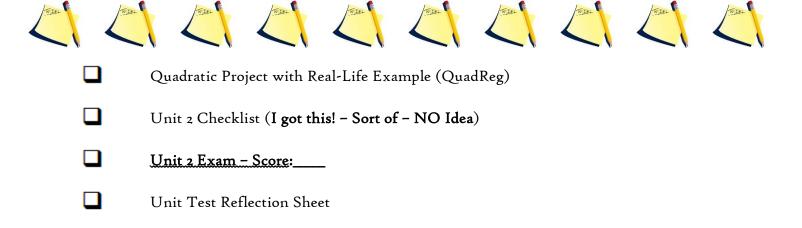
❑ Unit Test Reflection Sheet

<u>Unit 3 – Perfect Parent – Holy Shift of that Mother Function…Don't Touch that Asymptote</u>

Check if Done

<u>ITEM TO DO</u>

❑ Unit 3 Vocabulary List

❑ <u>Unit 3 Vocabulary Quiz – Score:____</u>

❑ 3.0 Worksheet – Score:____ (**Mother Function Patterns**)

❑ <u>Parent Functions' Pattern Quiz – Score:____</u>

❑ Horizontal Shift Vertical Shift Desmos Investigation

❑ 3.1 Worksheet – Score:____ (**Horizontal Shift and Vertical Shift – Domain/Range**)

❑ Scaling and Reflecting Investigation

❑ 3.2 Worksheet – Score:____ (**Scaling/Reflecting – Domain/Range**)

❑ 3.3 Worksheet – Score:____ (**Finding y-int and x-int**)

❑ 3.4 Worksheet – Score:____ (**NAGS**)

❑ <u>Units 3.1 – 3.3 Quiz – Score:____</u>

❑ Translations/Transformations (Laying the Foundations)

❑ 3.5 Worksheet – Score:____ (**Finding Inverses/Graphing Inverses**)

- ❑ Finding Inverses Flashcards – Create your own (quiz a neighbor)

- ❑ Speed Drill – **Finding Inverses** – Score:_____   Time:_____

- ❑ 3.6 Worksheet – Score:_____ (**Identifying if Functions are Inverses**)

- ❑ Dive Deeper into Quadratic's Inverse Investigation

- ❑ 3.7 Worksheet – Score:_____ (**Piecewise Graphs**)

- ❑ Piecewise Graph Activity (Laying the Foundations)

- ❑ 3.8 Worksheet – Score:_____ (**More Graphing Inequalities**)

- ❑ Systems of Equations Project (Presenting to a CEO)

- ❑ Unit 3 Review – Score:_____

- ❑ Unit 3 Checklist (**I got this! – Sort of – NO Idea**)

- ❑ <u>Unit 3 Exam – Score:_____</u>

- ❑ Unit Test Reflection Sheet

Unit 4 – Polynomial Functions

Check if Done	ITEM TO DO
❑	Unit 4 Vocabulary List
❑	<u>Unit 4 Vocabulary Quiz – Score:_____</u>
❑	4.0 Worksheet – Score:_____ (**Dividing Polynomials – Long Division/Synthetic**)
❑	End Behaviors of Polynomial Function Investigation
❑	4.1 Worksheet – Score:_____ (**End Behaviors/Turning Points**)
❑	4.2 Worksheet – Score:_____ (**Remainder/Factor Theorem**)
❑	Roots of a Polynomial Function Investigation (Touch or Cross)

❑ Speed Drill – **End Behavior/Roots** – Score:_____ Time:_____

❑ 4.3 Worksheet – Score:_____ (**Roots/Zeros of Polynomial Function**)

❑ Finding Possible Function for Graph Computer Quiz

❑ 4.4 Worksheet – Score:_____ (**Roots/Zeros DesCartes Rule of Sign Change**)

❑ 4.5 Worksheet – Score:_____ (**Rational Roots Theorem**)

❑ Speed Drill – **Rational Roots** – Score:_____ Time:_____

❑ 4.6 Worksheet – Score:_____ (**Bringing It All Together and Graphing**)

❑ Unit 4 Review – Score:_____

❑ Unit 4 Checklist (**I got this! – Sort of – NO Idea**)

❑ <u>Unit 4 Exam – Score:_____</u>

❑ Unit Test Reflection Sheet

❑ Polynomial Function Project

Unit 5 – Rational Functions

Check if Done	ITEM TO DO

❑ Unit 5 Vocabulary List

❑ <u>Unit 5 Vocabulary Quiz – Score:_____</u>

❑ Restrictions on Domain Task Cards

❑ 5.0 Worksheet – Score:_____ (**Simplifying Rational Expressions and (x) and (÷)**)

❑ 5.1 Worksheet – Score:_____ (**Adding and Subtracting Rationals/Complex Fractions**)

❑ 5.2 Worksheet – Score:_____ (**Solving Rational Equations/Inequalities Review**)

- ❑ 5.3 Worksheet – Score:_____ (**Parent**)

- ❑ 5.4 Worksheet – Score:_____ (**Asymptotes – Vertical/Horizontal/Oblique**)

- ❑ Excluded Values/Restrictions on Domain Scavenger Hunt

- ❑ 5.5 Worksheet – Score:_____ (**Intercepts**)

- ❑ 5.6 Worksheet – Score:_____ (**Solving Rational Inequalities – Upper Level**)

- ❑ Unit 5 Review – Score:_____

- ❑ Unit 5 Checklist (**I got this! – Sort of – NO Idea**)

- ❑ <u>Unit 5 Exam – Score:_____</u>

- ❑ Unit Test Reflection Sheet

Unit 6 – Exponential and Logarithmic Functions

Check if Done	ITEM TO DO
❑	Unit 6 Vocabulary List
❑	<u>Unit 6 Vocabulary Quiz – Score:_____</u>
❑	Review on Solving Exponential Equation Same Base Scavenger Hunt
❑	Multiplying Like Bunnies Activity
❑	Exponential Function Desmos Investigation
❑	Double Sunglasses Activity (**3 act – Dan Meyers**)
❑	6.0 Worksheet – Score:_____ (**Graphing Exponential Functions**)
❑	6.1 Worksheet – Score:_____ (**Discovering Euler's Number** *e*)
❑	Graphing Calculator Lab

- ❑   6.2 Worksheet – Score:_____ (**Logarithms and Their Graphs**)

- ❑   Speed Drill – Rewriting LOGs and Exponentials – Score:_____   Time:_____

- ❑   6.3 Worksheet – Score:____ (**Solving Logarithm Equations**)

- ❑   Exploring Properties of Logarithms

- ❑   6.4 Worksheet – Score:_____ (**Properties of Logarithms**)

- ❑   <u>Units 6.0 – 6.4 Quiz – Score:_____</u>

- ❑   6.5 Worksheet – Score:_____ (**Properties of LOGs to Solve Equations**)

- ❑   6.6 Worksheet – Score:_____ (**Common Logarithm**)

- ❑   6.7 Worksheet – Score:_____ (**Natural Base and Natural Logarithm**)

- ❑   6.8 Worksheet – Score:_____ (**Using Exponential and Logarithms (Application ?'s)**)

- ❑   Finals Week (**3 Act**)

- ❑   Unit 6 Review – Score:_____

- ❑   Unit 6 Checklist (**I got this! – Sort of – NO Idea**)

- ❑   <u>Unit 6 Exam – Score:_____</u>

- ❑   Unit Test Reflection Sheet

<u>Unit 7 – Trigonometry Stuff</u>

- ❑   Unit 7 Vocabulary List

- ❑   <u>Unit 7 Vocabulary Quiz – Score:_____</u>

- ❑   7.0 Worksheet – Score:_____ (**Trigonometric Functions in Right Triangles**)

- ❑   Investigation of Special Right Triangles

❑   7.1 Worksheet – Score:_____ (**Angles and Angle Measures**)

❑   7.2 Worksheet – Score:_____ (**Trigonometric Functions of General Angles**)

❑   <u>Units 7.0 – 7.2 Quiz – Score:_____</u>

❑   7.3 Worksheet – Score:_____ (**Laws of Sines**)

❑   7.4 Worksheet – Score:_____ (**Laws of Cosines**)

❑   Laws of Sine and Cosines Scavenger Hunt

❑   <u>Units 7.3 – 7.4 Quiz – Score:_____</u>

❑   7.5 Worksheet – Score:_____ (**Unit Circle**)

❑   Unit Circle Paper Plate

❑   <u>Unit Circle Blank Plate Quiz – Score:_____</u>

❑   7.6 Worksheet – Score:_____ (**Periodic Functions**)

❑   Desmos Trig Function Graph Exploration

❑   7.7 Worksheet – Score:_____ (**Graphing Trigonometric Functions**)

❑   7.8 Worksheet – Score:_____ (**Translations of a Trigonometric Graph**)

❑   Ferris Wheel (**3 Act**)

❑   7.9 Worksheet – Score:_____ (**Inverse Trigonometric Functions**)

❑   Unit 7 Review – Score:_____

❑   Unit 7 Checklist (**I got this! – Sort of – NO Idea**)

❑   <u>Unit 7 Exam – Score:_____</u>

❑   Unit Test Reflection Sheet

<u>Unit 8 – More Trigonometry Stuff</u>

- ❏ Unit 8 Vocabulary List

- ❏ <u>Unit 8 Vocabulary Quiz – Score:____</u>

- ❏ 8.0 Worksheet – Score:____ (**Trigonometric Identities**)

- ❏ Trigonometric Identities Flashcards – Create your own (quiz a neighbor)

- ❏ 8.1 Worksheet – Score:____ (**Verifying Trigonometric Identities**)

- ❏ 8.2 Worksheet – Score:____ (**Sum and Differences of Angles Identities**)

- ❏ <u>Units 8.0 – 8.2 Quiz – Score:____</u>

- ❏ 8.3 Worksheet – Score:____ (**Double-Angle and Half-Angle Identities**)

- ❏ 8.4 Worksheet – Score:____ (**Solving Trigonometric Equations**)

- ❏ Solving Trigonometric Equations Scavenger Hunt

- ❏ Unit 8 Review – Score:____

- ❏ Unit 8 Checklist (**I got this! – Sort of – NO Idea**)

- ❏ <u>Unit 8 Exam – Score:____</u>

- ❏ Unit Test Reflection Sheet

Unit 9 – Circle Basics

- ❏ Unit 9 Vocabulary List

- ❏ <u>Unit 9 Vocabulary Quiz – Score:____</u>

- ❏ 8.0 Worksheet – Score:____ ()

- ❏ Trigonometric Identities Flashcards – Create your own (quiz a neighbor)

- ❏ 8.1 Worksheet – Score:____ ()

❑ 8.2 Worksheet – Score:_____ ()

❑ <u>Units 8.0 – 8.2 Quiz – Score:_____</u>

❑ 8.3 Worksheet – Score:_____ ()

❑ 8.4 Worksheet – Score:_____ ()

❑ Solving Trigonometric Equations Scavenger Hunt

❑ Unit 9 Review – Score:_____

❑ Unit 9 Checklist (**I got this! – Sort of – NO Idea**)

❑ <u>**Unit 9 Exam – Score:_____**</u>

❑ Unit Test Reflection Sheet