Whiteriver Unified School District Essential Standards Quarterly Focus

What is it we expect students to learn?	
Grade: 9th	Subject: Algebra 1 Math

First Quarter

A1.A-SSE.A.1.a
Interpret expressions that represent a quantity in terms of its context.

A1.A-SSE.A.1.b
Interpret expressions by viewing parts as a single entity.

A1. A-REI.A.1
Explain each step in solving linear equations as following from the equality of numbers asserted at the previous step, starting from the assumption that the original equation has a solution. Construct a viable argument to justify a solution method.

A1.N-RN.B.3
Explain why the sum or product of two rational numbers is rational.

A1.A-CED.A.1
Create equations in one variable and use them to solve problems. Include problem-solving opportunities utilizing real-world context. Focus on linear function.

Second Quarter

A1.A-CED.A.3
Represent constraints by equations or inequalities.

A1.A-REI.B.3
Solve linear equations in one variable.

A1.F-BF.A.1
Write a function that describes a relationship between two quantities. Determine an explicit expression, a recursive process, or steps for calculation from real- world context

A1.F-IF.A.2
Evaluate a function for inputs in the domain, and interpret statements that use function notation in terms of a context

Third Quarter

A1.F-IF.A.1
Understand the concept of a function from one set (domain) to another set (range).

A1.A-REI.D.10
Understand that the graph of an equation in two variables is the set of all its solutions plotted in the coordinate plane, often forming a curve, which could be a line.

A1.F-IF.B.4
For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship. Include problem-solving opportunities utilizing real-world context. Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums. Focus on linear functions.

A1.F-IF.C.8

Write a function defined by an expression in different but equivalent

Fourth Quarter

A1.A-SSE.B.3
Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression. a. Factor a quadratic expression to reveal the zeros of the function it defines. Complete the square in a quadratic expression to reveal the maximum or minimum value of the function it defines.

A1.F-LE.A.1
Construct and compare linear, quadratic, and exponential models and solve problems.

A. 1.F-LE.A.2
Construct linear and exponential functions, including arithmetic and geometric sequences, given a graph, a description of a relationship, or input/output pairs.

A1.S-ID.A.2
Use statistics appropriate to the shape of the data distribution to compare center (median, mean) and spread (interquartile range, standard deviation) of two or more different data sets.

Whiteriver Unified School District Essential Standards Quarterly Focus

- *Endurance- Knowledge and skills of value beyond a single date*
- *Leverage- Knowledge and skills valuable in multiple disciplines*
- *Readiness for the next level of learning- Knowledge and skills that are necessary for success in the next grade level or the next level of instruction*