Math: Power Algebra

UNIT/Weeks (not consecutive)	Timeline/Topics	Essential Questions
9	**Foundations of Algebra** • Interpreting Numbers as Quantities • Relationships between Numbers • Creating Equivalent Equations using Inverse Operations and Simplification	• In what ways can the choice of units, quantities, and levels of accuracy impact a solution? • How can Algebra describe the relationship between sets of numbers? • How can equations that appear to be different be equivalent?
9	**Linear Relationships** • Linear equations • Verbal descriptions of linear relationships • Linear graphs • Linear tables • Real-world situations as modeled by discrete and continuous functions	• How do you represent relationships between quantities that are not equal? • How can you solve inequalities? • Can inequalities that appear to be different be equivalent?
9	**Expressions and Equations** • Write expressions in multiple ways using the rules of algebra. • Representing relationships between number through equations, inequalities and systems. • Solving quadratic equations by graphing, factoring, completing the square, and using the quadratic formula	• Why structure expressions in different ways? • How can algebra describe the relationship between sets of numbers? • How can you solve a quadratic equation?
9	**Functions and Descriptive Statistics**	• How can the properties of data be communicated

| | Summarizing, representing, and interpreting categorical and quantitative data in multiple ways. Collecting and analyzing data to help make decisions and predictions | to eliminate its important features?
How can data be collected and analyzed to help you make and predictions? |