Mathematics Algebra I Year-Long Curriculum Map $11^{\prime \prime} \times 17^{\prime \prime}$


|  | C. Descriptive Statistics | - Statistics and Probability Analyzing Data | 1) Summarizing, representing, and interpreting data appropriately on a single count or measurement variable <br> 2) Summarizing, representing, and interpreting data appropriately on two categorical and quantitative variables <br> 3) Interpreting linear models in context | $\begin{gathered} \text { S.ID.1, S.ID.6, } \\ \text { S.ID. } 9 \end{gathered}$ | S.ID. 8 | $\begin{aligned} & \text { S.ID.2, S.ID.3, } \\ & \text { S.ID.5, S.ID. } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | D. Expressions and Equations | - Algebra Extending the Concept of Expression to Include Polynomial and Rational Expression <br> - Algebra Writing and Solving Equations and Inequalities Systems While Anticipating the Number and Nature of Solutions <br> - Algebra - Using Multiple Representations of Relationships Between Quantities | 1) Interpreting the structure of quadratic expressions and exponential expressions with rational exponents <br> 2) Writing expressions in equivalent forms to reveal the roles of important mathematical features in context <br> 3) Understanding the connection between operations on integers and operations on polynomials <br> 4) Modeling contextual situations by creating linear, exponential, and quadratic equations <br> 5) Solving quadratic equations in one variable in contextual situations <br> 6) Solving a system of equations in context | A.SSE.1, <br> A.APR. 1 <br> A.CED. 4 | A.SSE.2, ASSE. 3 <br> A.CED.1, A.REI. 4 <br> A.REI. 7 | A.CED. 2 |
| $G$ | E. Quadratic Functions and Modeling | - Number and <br> Quantity - <br> Relating <br> Complex <br> Numbers to <br> Real Numbers <br> - Function - Using <br> Multiple <br> Representations <br> to Analyze <br> Functions <br> - Function - Using Multiple Representations of Relationships Between Quantities <br> - Functions Modeling Families of Functions | 1) Interpreting the structure of quadratic expressions and exponential expressions with rational exponents <br> 2) Writing expressions in equivalent forms to reveal the roles of important mathematical features in context <br> 3) Understanding the connection between operations on integers and operations on polynomials <br> 4) Modeling contextual situations by creating linear, exponential, and quadratic equations <br> 5) Solving quadratic equations in one variable in contextual situations <br> 6) Solving a system of equations in context | N.RN. 3 <br> F.IF.9, F.BF.3, F.LE. 3 | F.IF. 8 <br> F.BF. 4 | F.IF.4, F.IF. 6 <br> F.BF.1, F.IF.5, F.IF. 7 |

