## REDBANK VALLEY SCHOOL DISTRICT

## MATHEMATICS CURRICULUM MAP

| TRIGONOMETRY \& PRE-CALCULUS |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | JANUARY | FEBRUARY | MARCH | APRIL | MAY |
| Properties of Real Numbers; Basic Properties of Algebra; Cartesian Plane; Linear Equations \& Inequalities; Graphing Linear Equations | Solving Equations Graphically, Numerically, \& Algebraically; Solving Inequalities Algebraically \& Graphically; Math Modeling \& Equation Solving; Define Functions \& Their Properties; Analyze Ten Basic Functions; Build Functions: Algebraically, Composition, Parametric, \& Inverses | Transforming <br> Functions Graphically \& Algebraically; Produce Function to Model Data, <br> Formulas, \& Graphs; Linear \& Quadratic Functions with Modeling; <br> Power Functions with Modeling | Polynomial Functions of Higher Degree with Modeling; <br> Synthetic Division \& Finding Zeros of Polynomials; Operations of Complex Numbers; Find Complex Zeros of Polynomials |  <br> Applications of Exponential \& Logistic Functions | Logarithmic <br>  <br> Applications; <br> Properties of <br> Logarithmic <br> Functions; <br> Apply \& Solve <br>  <br> Logarithmic <br> Functions; <br> Use Exponential <br> Functions to Solve <br> Financial Applications | Convert Between <br> Radians \& Degrees; Right Triangle Trigonometry; Circular Functions of Trigonometry; Graphs of Sinusoids | Graphs of Tangent, <br>  <br> Cosecant; <br> Inverse Trig <br> Functions; <br> Solving Application <br> Problems with <br> Trigonometry | Fundamental <br> Trigonometry Identities; <br> Proving Trigonometry Identities; <br> Law of Sines; <br> Law of Cosines |

