**Virginia Mathematics Standards of Learning Tracking Log**

**Bridging from Mathematical Analysis**

The skills and strategies introduced in the Mathematics Standards of Learning vertically articulate from kindergarten to high school and many standards build in complexity within K-12 instruction. Teachers can use this tracker to help determine which standards students have had sufficient exposure and experience during the previous school year to make decisions regarding when and how experience with new standards might occur in the current school year.

|  | **Addressed during previous school year** | **Not Addressed/ Insufficient Exposure during previous school year** | **Comments** |
| --- | --- | --- | --- |
| MA.1 The student will investigate and identify the properties of polynomial, rational, piecewise, and step functions and sketch the graphs of the functions. |  |  |  |
| MA.2 The student will investigate and identify the characteristics of exponential and logarithmic functions to graph the function, solve equations, and solve practical problems.  |  |  |  |
| MA.3 The student will apply compositions of functions and inverses of functions to practical situations, and investigate and verify the domain and range of resulting functions. |  |  |  |
| MA.4 The student will determine the limit of an algebraic function, if it exists, as the variable approaches either a finite number or infinity.  |  |  |  |
| MA.5 The student will investigate and describe the continuity of functions.  |  |  |  |
| MA.6 The student will investigate, graph, and identify the properties of conic sections from equations in vertex and standard form.  |  |  |  |
| MA.7 The student will perform operations with vectors in the coordinate plane and solve practical problems using vectors.  |  |  |  |
| MA.8 The student will identify, create, and solve practical problems involving triangles.  |  |  |  |
| MA.9 The student will investigate and identify the characteristics of the graphs of polar equations. |  |  |  |
| MA.10 The student will use parametric equations to model and solve practical problems. |  |  |  |
| MA.11 The student will use matrices to organize data and will add and subtract matrices, multiply matrices, multiply matrices by a scalar, and use matrices to solve systems of equations. |  |  |  |
| MA.12 The student will expand binomials having positive integral exponents |  |  |  |
| MA.13 The student will determine the sum of finite and infinite convergent series. |  |  |  |