**Virginia Mathematics Standards of Learning Tracking Log**

**Bridging from Grade 6 to Grade 7**

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. Mathematics Bridging Standards documents are available to allow for the

identification of content that can be connected when planning instruction and promote deeper student understanding. The Grade 7 Bridging Standards document can be used in

conjunction with this Tracking Log to help link the content from grade 6 to grade 7 and to plan instruction for the current school year.

|  | **Addressed during previous school year** | **Not Addressed/ Insufficient Exposure during previous school year** | **Comments** |
| --- | --- | --- | --- |
| 6.1 The student will represent relationships between quantities using ratios, and will use appropriate notations, such as a/b , a to b, and a:b. |  |  |  |
| 6.2a The student will represent and determine equivalencies among fractions, mixed numbers, decimals, and percents; and |  |  |  |
| 6.2b The student will compare and order positive rational numbers. |  |  |  |
| 6.3a The student will identify and represent integers; |  |  |  |
| 6.3b The student will compare and order integers; and |  |  |  |
| 6.3c The student will identify and describe absolute value of integers. |  |  |  |
| 6.4 The student will recognize and represent patterns with whole number exponents and perfect squares. |  |  |  |
| 6.5a The student will multiply and divide fractions and mixed numbers; |  |  |  |
| 6.5b The student will solve single-step and multistep practical problems involving addition, subtraction, multiplication, and division of fractions and mixed numbers; and |  |  |  |
| 6.5c The student will solve multistep practical problems involving addition, subtraction, multiplication, and division of decimals. |  |  |  |
| 6.6a The student will add, subtract, multiply, and divide integers; |  |  |  |
| 6.6b The student will solve practical problems involving operations with integers; and |  |  |  |
| 6.6c The student will simplify numerical expressions involving integers. |  |  |  |
| 6.7a The student will derive π (pi); |  |  |  |
| 6.7b The student will solve problems, including practical problems, involving circumference and area of a circle; and |  |  |  |
| 6.7c The student will solve problems, including practical problems, involving area and perimeter of triangles and rectangles. |  |  |  |
| 6.8a The student will identify the components of the coordinate plane; and |  |  |  |
| 6.8b The student will identify the coordinates of a point and graph ordered pairs in a coordinate plane. |  |  |  |
| 6.9 The student will determine congruence of segments, angles, and polygons. |  |  |  |
| 6.10a The student, given a practical situation, will represent data in a circle graph; |  |  |  |
| 6.10b The student, given a practical situation, will make observations and inferences about data represented in a circle graph; and |  |  |  |
| 6.10c The student, given a practical situation, will compare circle graphs with the same data represented in bar graphs, pictographs, and line plots. |  |  |  |
| 6.11a The student will represent the mean of a data set graphically as the balance point; and |  |  |  |
| 6.11b The student will determine the effect on measures of center when a single value of a data set is added, removed, or changed. |  |  |  |
| 6.12a The student will represent a proportional relationship between two quantities, including those arising from practical situations; |  |  |  |
| 6.12b The student will determine the unit rate of a proportional relationship and use it to find a missing value in a ratio table; |  |  |  |
| 6.12c The student will determine whether a proportional relationship exists between two quantities; and |  |  |  |
| 6.12d The student will make connections between and among representations of a proportional relationship between two quantities using verbal descriptions, ratio tables, and graphs. |  |  |  |
| 6.13 The student will solve one-step linear equations in one variable, including practical problems that require the solution of a one-step linear equation in one variable. |  |  |  |
| 6.14a The student will represent a practical situation with a linear inequality in one variable; and |  |  |  |
| 6.14b The student will solve one-step linear inequalities in one variable, involving addition or subtraction, and graph the solution on a number line. |  |  |  |