RSU 22 Math Standards Grade 5 I Can Statements

Our scoring rubric
4
Highly Proficient – The work demonstrates excellent understanding of concepts and content. The work demonstrates in-depth inferences, analysis, or synthesis. The student knows this concept of skill well enough to be able to teach it to someone else.
3
Proficient – The work shows understanding of the process or content, as well as application in various settings. Some errors or mechanical mistakes may exist but do not impede demonstration of understanding.
2
Developing Proficiency – The work demonstrates some evidence of understanding the process or content, but misconstructions impede understanding. The groundwork for comprehension is evident, but misconceptions prevent the student from understanding the essential question or big idea.
1
Beginning Proficiency - The work indicates a distinct beginning understanding of the knowledge. With help the student demonstrates partial understanding of some of the Knowledge.

*In some instances, students would only be expected to meet a 2, the foundational proficiency level. Keep in mind that some students may be working at lower levels or higher levels.

Standard Skills that students will be taught (scored using the 4-point scale):

Operations and Algebraic Thinking
5.OA.A.1 I can write and figure out number sentences that have parentheses, brackets and/or braces.
5.OA.B.3 I can create two number patterns using two given rules.
5.OA.B.3 I can identify relationships between two number patterns.
5.OA.B.3 I can form ordered pairs using the relationship between two number patterns and graph them on a coordinate plane.

Numbers and Operations in Base Ten
5.NBT.A.1 I can understand and explain the value of digits in a larger number.
5.NBT.A.3 I can read, write, and compare decimals to thousandths.
5.NBT.A.4 I can use place value understanding to round decimals to any place.
5.NBT.B.5 I can easily multiply larger whole numbers.
5.NBT.B.6 I can divide four-digit numbers (dividends) by two-digit numbers (divisors).
5.NBT.B.6 I can illustrate and explain a division problem using equations, arrays and/or models.

5.NBT.B.7 I can add, subtract, multiply, and divide decimals to hundredths using what I have learned about place value.
5.NBT.B.7 I can relate the strategies I use to add, subtract, multiply and divide decimals to hundredths to a written problem and explain why I chose the strategies to help me solve the problem.

Numbers and Operations - Fractions
5.NF.A.1 I can add and subtract fractions with unlike denominators.
5.NF.B.4A I can understand and show with models that multiplying a fraction by a whole number is the same as finding the product of the numerator and whole number and then dividing it by the denominator.
5.NF.B.7 I can use what I know about division to divide fractions by whole numbers or whole numbers by fractions.

Measurement and Data
5.MD.A.1 I can convert different-sized measurements within the same measurement system.
5.MD.A.1 I can use measurement conversions to solve real-world problems.
5.MD.B.2 I can make a line plot to show a data set of measurements involving fractions.
5.MD.B.2 I can use addition, subtraction, multiplication and division of fractions to solve problems involving information presented on a line plot.
5.MD.C.4 I can measure volume by counting unit cubes.
5.MD.C.5b I can solve real-world and mathematical problems involving volume of an object using the formulas $V = l \times w \times h$ and $V = b \times h$.
5.MD.C.5b I can find the volumes of solid figures made up of two right rectangular prisms by adding the volumes of both.

Geometry
5.G.A.1 I can understand a coordinate plane and ordered pairs of number coordinates on that plane.
5.G.A.1 I can graph ordered pairs of numbers on a coordinate plane using what I have learned about the x-axis and coordinate and the y-axis and coordinate.
5.G.B.4 I can classify 2-dimensional shapes based on their properties.