

## Extended Content Standards Fifth Grade

### Standards for Mathematical Practice

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

*The Alternate Achievement Standards for Students With the Most Significant Cognitive Disabilities Non-Regulatory Guidance* states, "...materials should show a clear link to the content standards for the grade in which the student is enrolled, although the grade-level content may be reduced in complexity or modified to reflect pre-requisite skills. Throughout the Standards descriptors such as, describe, count, identify, etc., should be interpreted to mean that the students will be taught and tested according to their mode of communication.

### Operations and Algebraic Thinking

#### Standard

Write, explain, and evaluate expressions.

Understand the properties of multiplication.

**NC.5.OA.3**

Identify and extend numerical patterns.

### Number and Operations in Base Ten

<b>Standard</b>	
<b>Generalize place value understanding for multi-digit numbers.</b>	
<b>NC.5.NBT.1</b>	Identify equivalent groupings for quantities up to 99.
<b>Generalize place value understanding for multi-digit numbers.</b>	
<b>NC.5.NBT.3</b>	Compare whole numbers up to 100 using symbols (<, >, =).
<b>Compute with multi-digit whole numbers and decimal numbers.</b>	
<b>NC.5.NBT.5</b>	Multiply whole numbers up to $5 \times 5$ .
<b>NC.5.NBT.6</b>	Use fair and equal shares to solve division problems.

<b>Number and Operations – Fractions</b>	
<b>Standard</b>	
<b>Add and subtract fractions.</b>	
<b>NC.5.NF.1</b>	Identify models of halves ( $\frac{1}{2}$ , $\frac{2}{2}$ ), fourths ( $\frac{1}{4}$ , $\frac{2}{4}$ , $\frac{3}{4}$ , $\frac{4}{4}$ ), thirds ( $\frac{1}{3}$ , $\frac{2}{3}$ , $\frac{3}{3}$ ), and tenths ( $\frac{1}{10}$ , $\frac{2}{10}$ , $\frac{3}{10}$ , $\frac{4}{10}$ , $\frac{5}{10}$ , $\frac{6}{10}$ , $\frac{7}{10}$ , $\frac{8}{10}$ , $\frac{9}{10}$ , $\frac{10}{10}$ ).

**Multiply and divide fractions.****Measurement and Data****Standard****Convert like measurement units within a given measurement system.****NC.5MD.1**

Use standard units to measure weight and length of objects.

**Represent and interpret data.****NC.5.MD.2**

Represent and interpret data on a picture, line plot, or bar graph.

**Understand concepts of volume.****NC.5.MD.5**

Determine the volume of a rectangular prism by counting units of measure (unit cubes).

**Geometry****Standard****Understand the coordinate plane.****NC.5.G.1**

Use the x and y axis to locate a point or object on a graph.

**Classify two-dimensional figures into categories based on their properties.****NC.5.G.3**

Sort two-dimensional figures and identify the attributes (angles, number of sides, corners) they have in common.