



# BROWNELL TALBOT

## Grade 2 Prioritized Math Standards

The prioritized standards listed align with both the NCTM (National Council for Teachers of Mathematics) and the Nebraska State Standards. The NCTM also includes a set of Process Standards for grades preschool through 12 that highlight mathematical processes that students draw on to acquire and use their content knowledge (see the link on the next page).

### Number & Operations

<b>Understand numbers, ways of representing numbers, relationships among numbers, and number systems</b>	<p>Read, write, and represent numbers within the range of 0-1,000 using standard, word, and expanded form.</p> <p>Understand and represent commonly used fractions, such as <math>\frac{1}{4}</math>, <math>\frac{1}{3}</math>, and <math>\frac{1}{2}</math>.</p>
<b>Understand meanings of operations and how they relate to one another</b>	<p>Understand situations that entail multiplication and division, such as equal groupings of objects and sharing equally.</p>
<b>Compute fluently and make reasonable estimates</b>	<p>Fluently add and subtract within 28.</p> <p>Flexibly add and subtract within 100 using mental math and strategies based on place value, including the standard algorithm, properties of operations, and/or the relationship between addition and subtraction.</p> <p>Add up to three two-digit numbers using strategies based on place value and understanding properties.</p>

### Algebra

<b>Understand patterns, relations, &amp; functions</b>	<p>Analyze how both repeating and growing patterns are generated.</p>
<b>Represent and analyze mathematical situations and structures using algebraic symbols</b>	<p>Use concrete, pictorial, and verbal representations to develop an understanding of invented and conventional symbolic notations.</p>
<b>Use mathematical models to represent and understand quantitative relationships</b>	<p>Solve real-life problems involving addition and subtraction within 100 in situations of addition and subtraction, including adding to, subtracting from, joining and separating, and comparing situations with unknowns in all positions using objects, pictures, models, verbal explanations, expressions, and equations.</p>

## Geometry

**Analyze characteristics and properties of two and three dimensional geometric shapes and develop mathematical arguments about geometric relationships**

Recognize and draw shapes having a specific number of angles, faces, or other attributes.

**Use visualization, spatial reasoning, and geometric modeling to solve problems**

Divide circles and rectangles into two, three, or four equal parts. Describe the parts using the language of halves, thirds, fourths, half of, a third of, a fourth of.

## Measurement

**Understand measurable attributes of objects and the units, systems, and processes of measurement**

Identify and write time to five-minute intervals using analog and digital clocks and both a.m. and p.m.

Identify and use appropriate tools for measuring length (e.g., ruler, yardstick, meter stick, and measuring tape).

**Apply appropriate techniques, tools, and formulas to determine measurements**

Solve real-life problems involving dollar bills, quarters, dimes, nickels, and pennies, using dollar and cent symbols appropriately.

Count back change from \$1.00.

## Data Analysis & Probability

**Select and use appropriate statistical methods to analyze data**

Interpret data using bar and line graphs with up to four categories. Solve simple comparison problems using information from the graphs.

**NCTM Process Standards: [brownell.edu/nctm](http://brownell.edu/nctm)**