



## **KCDS Mathematics: Second Grade**

In Grade 2, there are four critical areas for instruction in mathematics: (1) extending understanding of base-ten notation to three digits; (2) building fluency with addition and subtraction; (3) using standard units of measure; and (4) describing and analyzing shapes.

## KCDS Second Grade: Mathematics (Grade Level at a Glance)

### 1<sup>st</sup> Trimester

<p><b>Unit 1: (1-2weeks)</b> Extending understanding of base-ten notation to 1000; Counting and writing ordinal numbers.</p>	<p><b>Unit 2: (3-4 weeks)</b> Demonstrate relationships among 10 to 1 relationships among ones, tens, and hundreds; Read and write three digit numbers and explain place value for each digit; Compare two numbers between 0 and 999.</p>	<p><b>Unit 3: (1-2 weeks)</b> Representing and solving problems involving multi-digit addition and subtraction.</p>	<p><b>Unit 4: (1-2 weeks)</b> Working with equal groups to gain foundation for multiplication; maintain fluency with addition and subtraction facts.</p>	<p><b>Unit 5: (1-2 weeks)</b> Describing and analyzing plane and solid geometric figures; Understanding lines of symmetry.</p>
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### 2<sup>nd</sup> Trimester

<p><b>Unit 6: (1-2 weeks)</b> Building fluency for addition and subtraction operations; writing story problems to demonstrate understanding of addition and subtraction processes.</p>	<p><b>Unit 7: (1-2 weeks)</b> Growing and repeating patters from given geometric or numeric sequences; constructing relationships among patterns, models, tables, and word problems.</p>	<p><b>Unit 8: (3-4 weeks)</b> Representing fractional parts of a whole for halves, thirds, fourths, sixths, eighths, tenths; comparing unit fractions using words and symbols (&lt;, &gt;, =).</p>	<p><b>Unit 9: (1-2 weeks)</b> Developing a facility in measuring length, weight, and liquid volume; using measurement to understand iteration of units.</p>	<p><b>Unit 10: (1-2 weeks)</b> Sustaining fluency in addition and subtraction operations.</p>
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### 3rd Trimester

<p><b>Unit 11: (3-4 weeks)</b> Building a foundation for multiplication and division through the use of representations such as equal-size groups, arrays, area models, and equal jumps on number lines for multiplication.</p>	<p><b>Unit 12: (1-2) weeks</b> Determine the value of a coins and one dollar bills whose total value is less than \$5.00</p>	<p><b>Unit 13: (1-2 weeks)</b> Measuring, recording and analyzing data; writing story problems applying mathematical concepts.</p>	<p><b>Unit 14: (1-2 weeks)</b> Writing using mathematical concepts; using visual aids to illustrate mathematical concepts.</p>	<p><b>Unit 15: (1-2 weeks)</b> Sustaining fluency in addition and subtraction operations involving multi-digits.</p>	<p><b>Unit 16: (1-2 weeks)</b> Begin building fluency for multiplication facts to 10.</p>
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### Overarching Unit (Integrated Throughout Every Unit)

**Analyzing Data and Making Predictions**

Students will use and analyze data from various graphs and charts.

**Measuring Time and Temperature**

Students will apply multiple strategies for measuring time and temperature.