

2nd Grade Math
PISD Curriculum: Year at a Glance

Bundle	<i>Title</i> Big Ideas/Enduring Understandings	Guiding Questions
1	<p><i>Graphing & Addition/Subtraction Strategies (up to 18)</i></p> <p>Organization of information shows relationships Knowing basic facts will help build and expand math skills</p>	<p>What is the difference between bar-type graphs and pictographs? How do we read different graphs? What patterns can be read by a graph? What strategies can be used for adding and subtracting two given numbers? How can numbers be used in our world? What addition and subtraction strategy works for you?</p>
2	<p><i>Addition/Subtraction Strategies, Problem Solving, and Place Value to 100</i></p> <p>Knowing basic facts will help build and expand math skills in our everyday lives The position of the digits in a number shows their value</p>	<p>How can numbers be used in our world? What strategies can be used for adding and subtracting two given numbers? What addition and subtraction strategy works for you? Note: These three questions are continuing from Bundle 1. What are some ways that you can represent a number? How can you identify how many tens and ones are in a given number? How can you explain the difference between the tens and one places?</p>
3	<p><i>Addition and Subtraction Problem Solving and Place Value to 999</i></p> <p>Number concepts help make sense of the world around us The position of the digits in a number shows their value</p>	<p>How do you know when to add or subtract in a given situation? What strategy will you use to solve your problem? What information is important to solve your problem? How can you identify how many hundreds, tens, and ones are in a given number? How does the place of a number affect its value? How could you prove that one number is larger or smaller than another? How can you show the location of a number on a number line?</p>

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4	<p><i>Graphing & Problem Solving with Data</i></p> <p>The ability to collect, organize, and analyze data is an essential skill for students both for its relationship with other mathematical strands as well as its everyday application</p>	<p>What are 3 questions can you answer by reading the table/graph?</p> <p>In what ways can data be organized?</p> <p>How can making a graph help you solve problems or understand data?</p>
5	<p><i>Money</i></p> <p>Coins have a value or equivalent worth</p>	<p>What are the values of individual coins?</p> <p>How is money used everyday?</p> <p>What strategies can you use to count a collection of coins?</p> <p>What symbols are used to describe the value of a collection of coins?</p>
6	<p><i>Modeling 2-Digit Addition and Subtraction</i></p> <p>Models can be used to solve addition and subtraction problems and give meaning to number sentences</p>	<p>How are addition and subtraction related?</p> <p>What are some ways you can model addition and subtraction of two-digit numbers?</p> <p>How can you explain your solution?</p>
7	<p><i>Problem Solving Using 2-Digit Addition and Subtraction</i></p> <p>Problems can be solved using a variety of strategies</p>	<p>How can you prove your answer?</p> <p>How do you select an appropriate problem solving strategy?</p> <p>What are some ways that you can explain and record your problem solving strategy?</p>
8	<p><i>Problem Solving Using 2-Digit Addition and Subtraction (Continued.) and Time</i></p> <p>Problems can be solved using a variety of strategies</p> <p>Clocks help us keep track of time</p> <p>Events can be measured by using beginning and ending times</p>	<p>How can you prove your answer?</p> <p>How do you select an appropriate problem solving strategy?</p> <p>What are some ways that you can explain and record your problem solving strategy?</p> <p>Note: These 3 questions are continuing from Bundle 7.</p> <p>What tools can be used to estimate and measure time?</p> <p>How can patterns help you identify time on an analog clock?</p> <p>How can you compare an analog and digital clock?</p> <p>Do we really need clocks to tell time?</p> <p>What are some things that you can do in one second, one</p>

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		minute, and one hour? How can you describe a given time on an analog or digital clock?
9	<i>Geometry and Fractions</i> Geometric shapes can be compared and classified by their attributes Fractions represent parts of a whole or a part of a group or set of objects	How can you use mathematical language to describe two-dimensional and three-dimensional shapes? What are some ways you can compare two-dimensional or three-dimensional shapes? What new figures can you create by cutting apart shapes? How are fractional parts represented? How do we use fractions in our everyday lives? How many equal pieces does it take to make a whole? How can you represent a fraction with a group or set of objects?
10	<i>Fractions, Probability, & Measurement</i> Fractions represent parts of a whole or a part of a group or set of objects Data can be used to predict when things can occur Objects can be measured with non-standard units	How are fractional parts represented? How do we use fractions in our everyday lives? How many equal pieces does it take to make a whole? How can you represent a fraction with a group or set of objects? Note: These 4 questions are continued from Bundle 9. How can you decide if a given fraction is closer to 0, $\frac{1}{2}$, or 1 whole? How can you use data to describe events as more or less likely, certain or impossible? How do we use probability in our everyday lives? When is an event more or less likely, certain or impossible? How can you select and use non-standard units used to measure length? How can you make reasonable estimates to determine measurements?

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		How do you take an accurate measurement?
11	<p><i>Measurement</i></p> <p>An object can be measured based on a variety of attributes</p>	<p>How can you select and use appropriate tools to measure an attribute?</p> <p>How can you make reasonable estimates to determine measurements?</p> <p>How do we use measurement in our everyday lives?</p> <p>How do you take an accurate measurement?</p>
12	<p><i>Modeling Multiplication and Division</i></p> <p>Models can be used to solve problems in multiplication and division and to give meaning to number sentences</p>	<p>How can you build a model of a problem situation involving equal groups to help solve the problem?</p> <p>How are multiplication and division related?</p> <p>How can you use this relationship when using tables or charts?</p>