

Kindergarten Math
PISD Curriculum: Year at a Glance

Bundle	Title Big Ideas/Enduring Understandings	Guiding Questions
1	<p><i>Calendar, Naming Number Quantities, and Identifying Shapes</i></p> <p>Objects can be counted. Compare groups of objects, numbers, and determine if groups have the same number or which is greater.</p>	<p>How many do you have? How can you use counting to help you in everyday life? Why is it important to be able to count? How can you tell if a group is greater or less than another group? How do you compare two or more groups to each other? What attributes can you use to identify or compare objects?</p>
2	<p>Sorting, Attributes, and Positions of Objects</p> <p>Objects can be compared by their attributes. An objects location can be identified by its position in relation to other objects.</p>	<p>How are groups alike? How are groups different? How do you know where this unit belongs? How do you know an object's position? What words can you use to describe an object's position? How do you use sequencing to determine what you do on a daily basis?</p>
3	<p><i>Sequencing Events, Predicting Patterns, and Constructing Graphs</i></p> <p>Patterns can be found in the world around us. Graphs can be constructed and analyzed.</p>	<p>Where do you find patterns? What makes a pattern? What unit repeats in a pattern and a non-pattern? How do you use a graph to display information? What can a graph determine? What are different ways you can construct a graph to show information?</p>
4	<p><i>Identifying and Extending Patterns and Problem Solving</i></p> <p>Patterns can be found in the world around us.</p>	<p>How do you identify a pattern? How can you predict what comes next in pattern? How do you create a pattern?</p>
5	<p><i>Predicting and Describing Patterns</i></p> <p>Patterns can be found in different forms.</p>	<p>How do patterns help me predict? What words can you use to describe your pattern? What is a real-world example of a pattern?</p>

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6	<p><i>Comparing Attributes of Length and Area</i></p> <p>Objects can be compared and ordered by length. Objects can be compared and ordered by area.</p>	<p>What words do you use to describe the length of objects? What words do you use to compare the length of objects? How can you tell if an object is longer or shorter than another? What words do you use to describe the area of objects? What words do you use to compare the area of objects? How can you tell if an object covers more or less area?</p>
7	<p><i>Naming Quantities, Interpreting Graphs, and Duration of Events/Time</i></p> <p>Groups can be identified by quantities. Graphs can help you solve problems. Events can be compared according to their duration.</p>	<p>How do I use counting in my everyday life? What are different ways to determine a quantity in a group? How can you record your quantity? How does making a graph or table help you solve problems? How does understanding a graph help you make a plan to solve a problem? What information does this graph tell me? What descriptive language can you use to compare duration of time? Why is it important to know how long an event takes? Which events in your daily schedule take the most/least time?</p>
8	<p><i>Comparing Weight/Mass, Capacity, and Temperature</i></p> <p>Objects can be compared and ordered by weight and capacity. Objects can be compared and ordered by temperature.</p>	<p>How can you tell if a container holds the same, more, or less than another? How can you compare the weights of different objects? What tools do you use to weigh objects? What information does a thermometer give you? What descriptive language can you use to determine whether something is hot or cold? How can you use your senses to determine if an object is hot or cold?</p>

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		How is temperature related to different objects and situations?
9	<p><i>Sorting and Describing Two and Three-Dimensional Shapes, Dividing Groups into Sets</i></p> <p>Objects can be sorted and described according to their attributes. Objects can be divided into parts.</p>	<p>How do attributes help me identify a shape? What attributes can you use to sort shapes? What two and three dimensional objects can be found in the real world? What is the relationship between Two and Three Dimensional Shapes? How do you know if parts are equal? How do parts compare to a whole? How can you divide an object into parts?</p>
10	<p><i>Explaining Parts, Addition, and Subtraction</i></p> <p>Objects have equal parts. Quantities are determined by joining or separating.</p>	<p>Why is a given part of a whole a half or not a half? What does equal mean? How can you tell if two objects/sets are equal? How do you know whether you are joining or separating? What symbols do you use to show an addition or subtraction number sentence? What is the relationship between addition and subtraction (joining and separating)?</p>
11	<p><i>Addition, Subtraction, and Explaining Our Thinking</i></p> <p>Number sentences can be used to explain our thinking.</p>	<p>How can you show a take-away story as a subtraction sentence? What do you want to find out? How can you show a joining story as an addition sentence?</p>
12	<p><i>Problem Solving</i></p> <p>Mathematics can be found in everyday situations.</p>	<p>What steps can you take to solve a problem? What strategies help you solve a problem? What tools can you use to solve a problem? What are some real world situations where math is used?</p>