



Kindergarten Mathematics

A Year at a Glance

English



Numerical Relationships	Operations	Measurement	Geometry	Data Analysis, Statistics, and Probability	Patterns, Functions, and Algebra
<p>Whole Numbers:</p> <ul style="list-style-type: none"> ★ Count 10 items or fewer; write numerals ★ Orally count numbers to 31; <i>count backwards from 20</i> ★ <i>Count from a given number up to 10</i> ★ Investigate patterns counting by two's, five's, and ten's to 30 ★ <i>Read number words one to ten</i> ★ <i>Represent and sequence numerals to 20</i> ★ Estimate, describe, compare groups up to 10 concrete materials ★ Identify ordinal positions first, second, and third ★ <i>Order objects by length, weight, size, and number</i> <p>Fractions:</p> <ul style="list-style-type: none"> ★ <i>Explore dividing wholes (objects and groups) into "equal" and "not-equal" parts</i> 	<p>Estimation:</p> <ul style="list-style-type: none"> ★ <i>Estimate and count the number in the "missing part" when whole is known</i> <p>Procedures for Computation:</p> <ul style="list-style-type: none"> ★ Model and explain addition and subtraction up to 10 concrete items ★ <i>Use symbols for addition (+) and subtraction (-)</i> ★ <i>Explore, model, and talk about a variety of ways to make 10</i> ★ <i>Explain concept of one more/less and two more/less with concrete objects</i> ★ <i>Represent addition or subtraction story problems using real objects and explain thinking</i> 	<p>Standard Units:</p> <ul style="list-style-type: none"> ★ Recognize, name, and describe characteristics of coins ★ Count collection of pennies, nickels, and/or dimes <i>up to 20 cents</i> ★ Identify instruments used to measure length, weight, time, and temperature ★ Identify parts of a calendar (days, months, and seasons) ★ <i>Sequence real-life events, using hours, days, weeks</i> ★ Tell time to the hour <p>Standard and Nonstandard Units:</p> <ul style="list-style-type: none"> ★ Describe two objects or events using comparisons of length, height, weight, and temperature ★ <i>Estimate and measure length, weight, and capacity/volume using nonstandard units</i> 	<p>Identify, Classify, and Transform Shapes:</p> <ul style="list-style-type: none"> ★ Identify, describe, and draw a circle, triangle, square, and rectangle ★ <i>Compare the size and shape of plane geometric figures</i> ★ <i>Recognize plane shapes regardless of orientation</i> ★ Describe the location of one object relative to another ★ <i>Find and discuss plane and solid shapes in the environment</i> ★ <i>Sort plane and solid shapes by properties</i> 	<p>Collect, Organize, Analyze Data:</p> <ul style="list-style-type: none"> ★ Gather real-life data by <i>sorting</i>, counting, and tallying ★ Display data using object graph, pictograph, table, and/or chart ★ <i>Communicate findings by describing data using more than/less than/same</i> <p>Probability:</p> <ul style="list-style-type: none"> ★ Conduct investigations of probability through hands-on activities and communicate results ★ <i>Explore concept of chance by predicting likelihood of everyday events</i> 	<p>Patterns:</p> <ul style="list-style-type: none"> ★ Sort and classify objects based on one attribute ★ Identify, describe, and extend a repeating relationship (pattern) ★ <i>Find a missing element in a pattern</i> ★ <i>Create patterns using concrete materials focusing on one or two attributes</i> <p>Functions:</p> <ul style="list-style-type: none"> ★ <i>Investigate "one more" and simple "doubles" using a function box</i>