Math Curriculum

Grade K

	Important Concepts	<u>Vocabulary</u>
•	Identify, describe, and extend patterns based	Over
	on shape, size, color, and numbers	Under
•	Identify different types of patterns	Beside
•	Create a pattern using shapes, colors, or	In
•	numbers	Out
•	Understand spatial concepts of over, under,	Around
	beside, in, out, around, on, and between	On
	Use positional vocabulary to describe relative	Between
•	positions of objects	Pattern
	Count using whole numbers to 29 by ones	Numbers
•		Count
•	Relate counting to physical objects	More
•	Use objects to represent quantities to 10	Less
•	Use objects to demonstrate understanding of	Same
	one-to-one correspondence up to and including	Fewer
	10	Graph
•	Read whole numbers 0-10	Data
•	Write whole numbers 0-5	Predict
•	Display data on a bar graph and pictograph	Bar graph
•	Understand why graphical representations of	Pictograph
	data are used	Before
•	Understand what information graphs can show	After
•	Analyze graphs and make predictions	Between
•	Use graphical data to answer questions	Number line
•	Count by whole numbers up to 49 by ones	Half
•	Write whole numbers 0-10	Divide
•	Use concrete objects to demonstrate one-to-	Equal
	one correspondence up to and including 20	Whole
•	Understand different ways to count to 49	Part
•	Use manipulatives to show quantities up to and	Circle
	including 20	Square
•	Understand number relationships—numbers	Triangle
	that fall before, after, and between 0-20	Rectangle
•	Understand the relationship between whole	Sphere
	and half	Cube
•	Divide a set of objects in half	Cone Cylinder
•	Use manipulatives to find before, after, and	Symmetry
	between on a number line	Rectangular prisn
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Math Curriculum

Grade K (con't)

Important Concepts

- Identify and whole object
- Understand equal parts
- Identify and locate two-dimensional and threedimensional shapes
- Name two dimensional shapes
- Identify the properties of two dimensional shapes
- Create a picture using geometric shapes
- Understand where two & three dimensional shapes appear in the environment
- Use multiple units of the same size to measure
- Use nonstandard units to estimate the length and height of an object
- Compare the measurement of different objects
- Identify the instruments used for measuring time, weight, volume, temperature, and length
- Using a calendar to indentify seasons, months, and dates
- Identify analog and digital clocks
- Tell time to the hour on analog and digital clocks
- Understand the relationship between the terms today, tomorrow, and yesterday relative to a calendar
- Counting using whole numbers up to 100 by ones and tens
- Create and count sets of ten using manipulatives
- Write whole numbers 0-20
- Read whole numbers 0-20
- Understand what it means to count by tens
- Use objects to represent quantities
- Identify characteristics of pennies, nickels, dimes, and quarter
- Count pennies, count dimes
- Count by ones to identify an amount of money
- Compare monetary values
- Understand the value represented by a given coin

Vocabulary

Longer

Shorter

Analog clock

Digital clock

Weight

Volume

Temperature

Thermometer

Scale

Calendar

Measure

Length

Penny Nickel

Dime

Quarter

More

Less

Cents Add

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Subtract

Plus

Minus

Equal

Math Curriculum

Grade K (con't)

Important Concepts

Vocabulary

- Understand what coins are used for
- Use picture / concrete object to represent the process of joining and separating sets
- Use numbers and symbols to represent addition and subtraction of concrete objects or pictures
- Solve a simple story problem and explain the process
- Identify the +, -, and = signs
- Understand where addition and subtraction occurs in the real world