

Oneness-Family School - First through Third Grade - Math Benchmarks Overview

Academy: Math Operations, Geometry and Measurements

MATH OPERATIONS		
First Grade	Second Grade	Third Grade
<p>Place Value</p> <p>Recognizes mathematical symbols</p> <p>Demonstrates knowledge of the quantity</p> <p>Demonstrates the concept of place value</p> <p>Identifies the different place values up to 9,999</p> <p>Constructs numbers using concrete materials to 9,999</p> <p>Recognizes the difference between odd and even numbers</p>	<p>Place Value</p> <p>Accurately uses mathematical symbols in all operations</p> <p>Accurately exchanges numbers to the correct next place value</p> <p>Can accurately read numbers up to 9,999,999</p> <p>Identify place values and constructs numbers using concrete materials to 9,999,999</p> <p>Can count up to 100 using odd and even numbers</p>	<p>Place Value</p> <p>Recognizes mathematical symbols in a variety of contexts</p> <p>Consistently demonstrates knowledge of the quantity</p> <p>Consistently demonstrates the concept of place value</p> <p>Accurately identifies place values and constructs numbers using concrete materials to 9,999,999</p> <p>Identify place values and constructs numbers using concrete materials to 9,999,999,999</p> <p>Recognizes the difference between odd and even numbers</p>
<p>Operations (+ / -)</p> <p>Demonstrates and verbalizes a fundamental understanding of addition and subtraction</p> <p>Demonstrates and verbalizes dynamic addition and subtraction with concrete materials</p>	<p>Operations (+ / -)</p> <p>Completes addition and subtraction problems up to 9,999,999</p>	<p>Operations (+ / -)</p> <p>Accurately demonstrates and verbalizes a fundamental understanding of addition and subtraction</p>

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<p>Demonstrates dynamic addition and subtraction on paper</p> <p>Continuing to memorize addition and subtraction facts up to 9</p>	<p>Can accurately complete more than 3 dynamic addition and subtraction problems unassisted with concrete materials up to 9,999,999</p> <p>Demonstrates and verbalizes dynamic addition and subtraction on paper</p> <p>Memorizes addition and subtraction facts up to 9</p>	<p>Accurately demonstrates and verbalizes dynamic addition and subtraction with concrete materials</p> <p>Accurately demonstrates and verbalizes dynamic addition and subtraction on paper</p> <p>Memorizes addition and subtraction facts</p>
<p>Operations (\times / \div)</p> <p>Demonstrates and verbalizes a fundamental understanding of multiplication and division</p> <p>Demonstrates static multiplication and division with concrete materials</p> <p>Demonstrates static multiplication and division on</p> <p>Demonstrates a fundamental understanding of dynamic multiplication and division</p> <p>Demonstrates dynamic multiplication and division with concrete materials</p> <p>Demonstrates accuracy in all operations</p>	<p>Operations (\times / \div)</p> <p>Demonstrates and verbalizes a fundamental understanding of multiplication and division</p> <p>Demonstrates and verbalizes static multiplication and division with concrete materials</p> <p>Demonstrates and verbalizes static multiplication and division on paper</p> <p>Demonstrates and verbalizes a fundamental understanding of dynamic multiplication and division</p> <p>Demonstrates and verbalizes dynamic multiplication and division with concrete materials</p> <p>Memorizes multiplication and division facts</p>	<p>Operations (\times / \div)</p> <p>Accurately demonstrates and verbalizes a fundamental understanding of multiplication and division</p> <p>Demonstrates and verbalizes static multiplication and division with concrete materials</p> <p>Accurately demonstrates and verbalizes static multiplication and division on paper</p> <p>Accurately demonstrates and verbalizes a fundamental understanding of dynamic multiplication and division</p> <p>Accurately demonstrates and verbalizes dynamic multiplication and division with concrete materials</p>

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	<p>Demonstrates orderliness and accuracy in all operations</p>	<p>Completes memorization of multiplication and division facts</p> <p>Demonstrates and solves dynamic multiplication problems on paper</p> <p>Demonstrates and solves static division problems on paper</p> <p>Accurately demonstrates orderliness and accuracy in all operations</p>
<p>Word Problems</p> <p>Beginning to Read and identify the operation in a word problem up to the operation of division</p> <p>Writes the proper equation to solve a word problem</p> <p>Accurately solves and records the answer to a word problem</p>	<p>Word Problems</p> <p>Reads and identifies the operation in a word problem</p> <p>Writes all of the proper steps in order to solve a word problem</p> <p>Can accurately solve and records the answer to a word problem up to the operation of division</p>	<p>Word Problems</p> <p>Accurately and consistently demonstrates an understanding and strategy of word problems</p> <p>Reads and correctly identifies the operation in a word problem</p> <p>Consistently writes the proper equation to solve a word problem</p> <p>Accurately solves and records the answer to a word problem, including units</p>
<p>Telling Time</p> <p>Identifies the basic parts of a clock</p> <p>Reads the hour, half hour, and quarter hour</p> <p>Reads the time in five-minute sequences</p>	<p>Telling Time</p> <p>Reads a clock in hour, half hour, 15-minute, and five-minute sequences</p>	<p>Telling Time</p> <p>Consistently tells time by reading a clock in an hour, half hour, quarter hour, and five-minute sequences</p>

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	<p>Reads and writes the time to the minute</p>	<p>Accurately reads and writes the time to the minute</p> <p>Solves “Telling Time” word problems</p>
<p>Money</p> <p>Recognizes the names and values of coins</p> <p>Counts coins by ones, fives, tens, and twenty-five</p> <p>Adds, subtracts, and exchanges coins</p> <p>Writes the value of coins with the cents sign</p>	<p>Money</p> <p>Recognizes the names and values of coins and bills</p> <p>Adds and subtracts amounts of money using cents and dollar signs</p> <p>Exchanges coins and makes change</p>	<p>Money</p> <p>Consistently recognizes the names and values of coins and bills</p> <p>Accurately adds and subtracts amounts of money using cents and dollar signs</p> <p>Efficiently exchanges coins and makes change</p>
<p>Graphs & Fractions</p> <p>Identifies and labels the parts of the graph</p> <p>Demonstrates a fundamental understanding of fractions</p> <p>Identifies fractions</p> <p>Identifies the numerator and denominator of fractions</p>	<p>Graphs & Fractions</p> <p>Analyzes and gathers information from different types of graphs</p> <p>Consistently demonstrates a fundamental understanding of fractions</p> <p>Accurately and consistently Identifies fractions</p> <p>Writes fractions</p>	<p>Graphs & Fractions</p> <p>Analyzes and gathers information from different types of complex graphs</p> <p>Demonstrates a fundamental understanding of fractions and fraction equations</p> <p>Identifies fractions and fraction equations</p> <p>Writes fractions and fraction equations</p>

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GEOMETRY & MEASUREMENT		
First Grade	Second Grade	Third Grade

<p>Identifies and discriminates between points, lines, planes, and solids</p> <p>Identifies the qualities and parts of a line</p> <p>Identifies multiple tools used for measurement</p> <p>Draws line segments from the “0” on a ruler</p> <p>Understands and writes abbreviations for units of measure</p> <p>Recognizes and identifies closed figures and polygons of up to 10 sides</p> <p>Discriminates between types of polygons</p> <p>Demonstrates an understanding of symmetry and probability</p> <p>Measures accurately in inches and feet</p> <p>Measures accurately in millimeters, centimeters, and decimeters</p> <p>Measures accurately to the nearest inch</p>	<p>Identifies the range of relationships between two lines</p> <p>Recognizes and identifies the parts of a triangle</p> <p>Identifies multiple tools used for measurement</p> <p>Measures to the whole value of and to the nearest value of the following units of measure</p> <ul style="list-style-type: none"> ● Millimeter ● Centimeter ● Decimeter ● Inch ● Foot <p>Measures in halves of an inch</p> <p>Discriminates between the types of trapezoids</p> <p>Demonstrates an understanding of congruence, symmetry, and probability</p>	<p>Identifies and describes the parts of an angle</p> <p>Discriminates between acute, right, obtuse, straight, reflex, and whole angles</p> <p>Demonstrates knowledge of the relationship between two angles</p> <p>Identifies the types of angles formed by two straight lines and a transversal</p> <p>Identifies multiple tools for measurement</p> <p>Measures to the whole value of and to the nearest value of the following units of measure:</p> <ul style="list-style-type: none"> ● Millimeter ● Centimeter ● Decimeter ● Kilometer ● Inch ● Foot ● Yard ● Mile
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<p>Measures accurately to the nearest centimeter</p> <p>Identifies parts of a polygon</p> <p>Recognizes and identifies closed curves</p> <p>Measures weight accurately in pounds</p> <p>Measures weight accurately in kilograms</p> <p>Measures volume accurately in cups, pints, quarts, and gallons</p>	<p>Accurately estimates length in yards, feet, and inches</p> <p>Recognizes and identifies the parts of the following quadrilaterals:</p> <ul style="list-style-type: none"> ● Common Quadrilateral ● Trapezoid ● Parallelogram ● Rectangle ● Rhombus ● Square <p>Accurately estimates length in meters, centimeters, and decimeters</p> <p>Accurately measures simple perimeter in inches and centimeters</p> <p>Accurately measures the area of a rectangle</p> <p>Recognizes and identifies the parts of a circle</p> <p>Demonstrates knowledge of the relationship between a circle and a straight line</p> <p>Demonstrates knowledge of the relationship between two circles</p> <p>Accurately interchanges cups, pints, quarts, gallons, and milliliters and liters</p>	<p>Measures in halves and quarters of an inch</p> <p>Estimates length to the nearest inch, foot, yard, centimeter, decimeter, and meter</p> <p>Measures and estimates distances in miles from a travel chart</p> <p>Transposes between inches and feet, expressing distances in both units and their combination</p> <p>Recognizes and identifies the following parts of a triangle:</p> <ul style="list-style-type: none"> ● Altitude ● Median ● Axis ● Centers ● Sides ● Angles <p>Accurately measures perimeter in inches and centimeters</p> <p>Accurately measures the area of a rectangle and triangle</p> <p>Accurately measures in cubic inches</p> <p>Accurately measures weight in ounces, pounds, and tons</p>

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	<p>Reads temperatures on a thermometer in Fahrenheit and Celsius Accurately measure the weight of an object in pounds, ounces, grams, and kilograms</p> <p>Accurately measures the volume of liquids in cups, pints, quarts, gallons, grams, and kilograms</p>	<p>Accurately estimates the weight of objects in ounces, pounds, and tons</p> <p>Recognizes, identifies, and discriminates between the range of triangles</p> <p>Accurately measures volume in cups, pints, quarts, gallons, milliliters, and liters</p> <p>Accurately interchanges cups, pints, quarts, and gallons</p> <p>Accurately interchanges teaspoons, tablespoons, cups, pints, and gallons</p> <p>Measures in fractions of a cup</p> <p>Accurately estimates the amount of liquid in teaspoons, tablespoons, cups, pints, quarts, and gallons, milliliters, and liters</p> <p>Reads and records temperatures on a thermometer in Fahrenheit and Celsius</p> <p>Accurately demonstrates an understanding of congruence, symmetry, and probability</p>