

# Math

## Third Grade

Topic	Concept/Goal	Skill	Activity/Resource
PROBLEM SOLVING	<p>Understand what information is needed to solve a problem</p> <p>Develop a variety of strategies to solve problems</p>	<p>Locate needed information in pictures, maps, charts, graphs and tables</p> <p>Use guess and check, working backwards, making lists and/or diagrams to solve problems</p>	<p>Weekly problem solving experiences <i>Problem Solving Experiences in Mathematics</i></p> <p>Matrix logic grids, charts, graphs, tables</p> <p>University of Chicago Everyday Math</p> <p>Marilyn Burns problem-solving activities</p> <p>Marcy Cook activities</p>
NUMBER CONCEPTS	<p>Develop an understanding of place value to 10,000</p>	<p>Count, read, and write numbers to 10,000</p> <p>Use <math>&gt;</math>, <math>&lt;</math>, and <math>=</math></p> <p>Express numbers in expanded form</p> <p>Identify odd, even, ordinal numbers</p>	<p>University of Chicago Everyday Math</p> <p>Base ten blocks</p>
COMPUTATION	<p>Understand concepts and processes of addition and subtraction of whole numbers</p> <p>Understand multiplication of whole numbers through repeated addition, use of arrays, and real life situations</p> <p>Understand division of whole numbers through sharing, dealing out known quantities</p>	<p>Know basic addition, subtraction facts to 20; add columns of 2-digit numbers; add 3-, 4-digit numbers; subtract 3-, 4-digit numbers with regrouping</p> <p>Learn multiplication facts to 10's; practice multi-digit multiplication problems x1 digit, multiples of 10 and x2 digit</p> <p>Divide quantities using concrete objects; practice single-digit division with and without remainders</p>	<p>University of Chicago Everyday Math</p> <p>Use appropriate children's literature to introduce multiplication and division</p> <p>Nightly fact practice</p> <p>Use 100's chart to find multiples</p> <p>Mad Minutes</p> <p>Marcy Cook activities</p> <p>Marilyn Burns enrichment activities</p>
FRACTIONS AND DECIMALS	<p>Understand that fractions and decimals represent parts of a whole; develop an understanding of equivalent fractions</p> <p>Understand and relate 10ths and 100ths to fractions</p>	<p>Know halves, thirds, fourths, eighths and one whole</p> <p>Relate 100ths to money</p>	<p>University of Chicago Everyday Math</p> <p>Fraction kit</p> <p>Marilyn Burns activities</p> <p>Color tiles</p> <p>Pattern blocks</p>

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GEOMETRY	<p>Develop and refine spatial sense, understanding of geometric terms</p> <p>Develop familiarity with line segments, angles and polygons</p>	<p>Identify symmetric shapes</p> <p>Identify types of lines and angles</p> <p>Name and describe polygons and solids</p>	<p>University of Chicago Everyday Math</p> <p>Marilyn Burns activities</p> <p>3-D manipulatives</p> <p>Pattern block activities</p> <p>Tangrams</p>
MEASUREMENT	<p>Develop understanding of measurement of length, mass, area, perimeter and volume</p> <p>Tell time using digital and analog clocks</p>	<p>Create and use standard and non-standard units to represent length</p> <p>Identify and compare inches, feet, yards, millimeters, centimeters and meters</p> <p>Determine area and perimeter of polygons</p> <p>Determine volume of objects</p> <p>Tell time to nearest minute</p> <p>Determine elapsed time</p>	<p>University of Chicago Everyday Math</p> <p>Measuring tools</p> <p>Applied measurement in science curriculum</p> <p>Find examples of area and perimeter used in everyday life</p> <p>Clocks, timers</p>
STATISTICS, GRAPHING, AND PROBABILITY	<p>Develop an understanding of graphs</p> <p>Develop an understanding of possible and probable outcomes</p>	<p>Read a variety of graphs</p> <p>Predict probable outcomes</p> <p>Record data, create graphs</p>	<p>University of Chicago Everyday Math</p> <p>Venn diagrams and graphs</p> <p>Dice, spinners, coins and cubes</p>