



Topic	Concept/Goal	Skill	Activity/Resource
FREE EXPLORATION	Become familiar with properties of manipulatives	Develop fine motor skills, think critically, observe characteristics of objects	Math centers: pattern blocks, geoboards, unifix cubes, tiles, buttons  University of Chicago Everyday Math Program, Marcy Cook Math Enrichments
PATTERNS	Develop awareness of patterns Recognize and create patterns	Identify, replicate and extend patterns Create and continue original patterns Describe patterns with repetitive language	Math manipulatives, snapping and clapping patterns, lining up patterns Patterned place mats Small group cooperative work, mini-lessons University of Chicago Everyday Math Program, Marcy Cook Math Enrichments
SORTING AND CLASSIFYING	Group objects according to attributes: shape, color, size, thickness, etc.	Notice and describe similarities and differences Identify attributes of various objects Group objects; describe sorting strategies	Math manipulatives such as attribute blocks Myself and Others Science Unit Math centers, small group lessons University of Chicago Everyday Math Program, Marcy Cook Math Enrichments
COUNTING	Develop skills in one-to-one correspondence Count using cardinal numbers, forward and backward, count using ordinal numbers Compare and order numbers	Match equivalent sets, count sets of objects Count by 1's, 2's to 20, 5's to 25, 10's to 100 Determine whether a set has more or less Count on to solve problems	University of Chicago Everyday Math Program, Marcy Cook Math Enrichments Daily calendar activities Graphing and graph interpretation Skip counting activities and projects Kathy Richardson Activities
PLACE VALUE	Develop understanding of the base ten system	Group objects by 10's	Calendar activities, counting by 10's, 100th Day of School Celebration University of Chicago Everyday Math Program, Marcy Cook Math Enrichments



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ADDITION AND SUBTRACTION	Understand that sets can be combined Develop strategies for combining and separating sets	Determine combinations which make numbers Record pictorial representations of sets Use math terms to describe operations of addition and subtraction Recognizes and uses the symbols for addition, subtraction, and equals.	Number centers using manipulatives Number lines Mini-lessons to develop independent strategies: counting on, counting back, using concrete objects, counting with fingers
MEASUREMENT	Become familiar with standard and nonstandard units of measure Relate comparative size and amount with units of measure	Measure and compare volume, mass, length Begin to estimate Predict and confirm	University of Chicago Everyday Math Program, Marcy Cook Math Enrichments Height chart Various science unit measurements Pumpkin Math Manipulatives as nonstandard units of measure: unifix cubes, teddy bear counters, etc.
PROBLEM SOLVING AND CRITICAL THINKING	Explore different strategies to solve real life problems  Begin to relate mathematical operations to real and hypothetical situations  Recognize that there are different methods and approaches to solving problems	Verbalize and hear descriptions of mental operations  Begin to solve some problems mentally  Act out solutions to problems with manipulatives	University of Chicago Everyday Math Program, Marcy Cook Math Enrichments  Story problems  Use of problems presented through books as opportunities to devise plans and find solutions
NUMERAL RECOGNITION AND FORMATION	Recognize numerals  Develop ability to form numerals correctly	Identify numerals	Numeral cards Daily calendar time Variety of tactile, kinesthetic activities to form numerals such as using shaving cream, sand Handwriting Without Tears numeral formation University of Chicago Everyday Math Program, Marcy Cook Math Enrichments, Kathy Richardson Activities



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MONEY	Strengthen knowledge of coin names and values	Know names and a values of penny, nickel, dime, and quarter Develop strategies for counting coins	University of Chicago Everyday Math Program, Marcy Cook Math Enrichments
TIME	Develop an understanding of concepts related to time: its passage and its measurement	Sequence events, days, months, seasons Compare the duration of events Use the terms "before" and "after" accurately Tell time to the hour	University of Chicago Everyday Math Program, Marcy Cook Math Enrichments Calendar
GEOMETRY	Recognize geometric figures Identify characteristics of shapes	Identify shapes: square, circle, rectangle, triangle Begin to identify cone, cylinder, rhombus, trapezoid Develop skills of visual awareness and strategies for identifying shapes	University of Chicago Everyday Math Program, Marcy Cook Math Enrichments Pattern blocks and mirrors Building and recording pattern block walls Attribute blocks Block center during free choice Thematically related art activities