

Mathematics
Hinsdale School District

Grade Level: K

Standard: Numbers and Operations

Knowledge & Skills	Content	Activities	Resources & Materials	Assessments
<p>M(N&O)–K–1 Demonstrates conceptual understanding of rational numbers with respect to: whole numbers from 0 to 12 through investigations that apply the concepts of equivalency in composing or decomposing numbers using models, explanations, or other representations; and positive fractional numbers ($\frac{1}{2}$) as “fair share” (i.e., equal sized parts or sets) using models, explanations, or other representations.</p>	<p>*Composing and Decomposing numbers *Fractional Numbers</p>	<p>One to one corespondance Sharing halves</p>	<p>Fraction tiles</p>	<p>End of chapter tests Informal assessments Observations Math journals Chapter review</p>

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Knowledge & Skills	Content	Activities	Resources & Materials	Assessments
<p>M(N&O)–K–2 Demonstrates understanding of the relative magnitude of numbers from 0 to 20 through investigations that demonstrate one-to-one correspondence; that compare whole numbers to each other or to benchmark whole numbers (5, 10); that demonstrate an understanding of the relation of inequality when comparing whole numbers by using “1 more” or “1 less”; that connect numbers orally and written as numerals to the quantities that they represent using models, representations, or number lines.</p>	<p>*One to one correspondence *Numbers 0 to 20 *1 more, 1 less</p>	<p>Number Games</p>	<p>Counting tiles Various manipulatives</p>	<p>End of chapter tests Informal assessments Observations Math journals Chapter review</p>

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Knowledge & Skills	Content	Activities	Resources & Materials	Assessments
<p>M(N&O)–K–3 Demonstrates conceptual understanding of mathematical operations through investigations involving addition and subtraction of whole numbers (from 0 to 10) by solving problems involving joining actions, separating actions, part-part whole relationships, and comparison situations; and addition of multiple one-digit whole numbers. (See Appendix A.)</p>	<p>*Addition *Subtraction</p>	<p>Addition and Subtraction Problems</p>	<p>Various Manipulatives.</p>	<p>End of chapter tests Informal assessments Observations Math journals Chapter review</p>

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Knowledge & Skills	Content	Activities	Resources & Materials	Assessments
M(N&O)–K–5 Demonstrates understanding of monetary value through investigation involving knowing the names and values for coins (penny, nickel and dime).	*Value of money *Penny, nickel, dime	Identify coins Money bingo	Coins	Child can identify all coins and their value

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<p>M(N&O)–K–6 Mentally adds and subtracts whole numbers by naming the number that is one more or one less than the original number.</p> <p>(IMPORTANT: The intent of this GLE is to embed mental arithmetic throughout the instructional program, not to teach it as a separate unit.)</p>	<p>*1 more *1 less</p>	<p>Count children Add days to a calendar</p>	<p>Calendar items</p>	<p>When given a number the child can give you 1 more and 1 less.</p>

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<p>M(N&O)–K–7 Makes estimates of the number of objects in a set (up to 20) by making and revising estimates as objects are counted (e.g., A student estimates the number of pennies in a jar as 20. Then the student counts the first 10 and makes another estimate based on those that have been counted and those that remain in the jar.).</p> <p>(IMPORTANT: Estimation should be imbedded instructionally throughout all strands.)</p>	<p>Estimation</p>	<p>Estimation should be imbedded instructionally throughout all strands.</p>	<p>Various items to estimate.</p>	<p>End of chapter tests Informal assessments Observations Math journals Chapter review</p>

Mathematics
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Grade Level: K

Standard: Geometry and Measurement

Knowledge & Skills	Content	Activities	Resources & Materials	Assessments
<p>M(G&M)–K–1 Uses properties, attributes, composition, or decomposition to sort or classify polygons (triangles, squares, rectangles, rhombi, trapezoids, and hexagons) or objects by using one non-measurable or measurable attribute; and recognizes, names, and builds polygons and circles in the environment.</p>	<p>*Properties of polygons *Triangles, squares, rectangles, rhombi, trapezoids, and hexagons</p>	<p>Making different designs using tanagrams Copy different designs using tanagrams</p>	<p>Tanagram pieces</p>	<p>End of chapter tests Informal assessments Observations Math journals Chapter review</p>

Mathematics
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Grade Level: K

Standard: Geometry and Measurement

Knowledge & Skills	Content	Activities	Resources & Materials	Assessments
<p>M(G&M)–K–7 Demonstrates conceptual understanding of measurable attributes using comparative language to describe and compare attributes of objects (length [longer, shorter], height [taller, shorter], weight [heavier, lighter], temperature [warmer, cooler], and capacity [more, less]); and compares objects</p>	<p>*Describe measurable attributes *Length *Height *Weight *Temperature *Capacity</p>	<p>Using various objects weigh and measure them.</p> <p>Compare various objects that have been measured.</p>	<p>Various objects of different weights.</p>	<p>End of chapter tests Informal assessments Observations Math journals Chapter review</p>

visually and with direct comparison.				
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Grade Level: K

Standard: Geometry and Measurement

Knowledge & Skills	Content	Activities	Resources & Materials	Assessments
M(G&M)–K–8 Determines elapsed and accrued time as it relates to calendar patterns (days of the week, yesterday, today, and tomorrow), the sequence of events in a day; and identifies a clock and calendar as measurement tools (days of week, months of the year).	*Days of the week *Today/Tomorrow *Calendar	Calendar Activities Calendar poems/ chants	Charts	End of chapter tests Informal assessments Observations Math journals Chapter review

Mathematics
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Grade Level: K

Standard: *Geometry and Measurement*

Knowledge & Skills	Content	Activities	Resources & Materials	Assessments
<p>M(G&M)–K–9 Demonstrates understanding of spatial relationships using location and position by using positional words to locate and describe where an object is found in the environment.</p>	<p>*Spatial Relationships</p>	<p>Have children find items around the room using positional words.</p>	<p>Various items placed around the room.</p>	<p>End of chapter tests Informal assessments Observations Math journals Chapter review</p>

Mathematics
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Standard: Functions and Algebra

Knowledge & Skills	Content	Activities	Resources & Materials	Assessments
<p>M(F&A)–K–1 I Identifies and extends to specific cases a variety of patterns (sequences of shapes, sounds, movement, colors, and letters) by extending the pattern to the next one, two or three elements, or by translating AB patterns across formats (e.g., an abb pattern can be represented as snap, clap, clap or red, yellow, yellow) or by identifying number patterns in the environment.</p>	<p>*Patterns</p>	<p>Pattern activities using shapes, sounds, movement, colors, and letters</p>	<p>Pattern blocks Unifix cubes</p>	<p>End of chapter tests Informal assessments Observations Math journals Chapter review</p>

Mathematics
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Grade Level: K

Standard: Data, Statistics and Probability

Knowledge & Skills	Content	Activities	Resources & Materials	Assessments
<p>M(DSP)–K–1 Interprets a given representation created by the class (models and tally charts) to answer questions related to the data, or to analyze the data to formulate conclusions using words, diagrams, or verbal/scribed responses to express answers.</p> <p><i>(IMPORTANT: Analyzes data consistent with concepts and skills in M(DSP)–K–2.)</i></p>	<p>*Tally charts *Data</p>	<p>Graph various items.</p>	<p>Graphing items and graph.</p>	<p>When given a graph the child can tell you two things about that graph (i.e. more than, less than etc.)</p>

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Grade Level: K

Standard: Data, Statistics and Probability

Knowledge & Skills	Content	Activities	Resources & Materials	Assessments
M(DSP)–K–2 Analyzes patterns, trends, or distributions in data in a variety of contexts by determining or using more, less, or equal (e.g., Have there been more, less, or the same number of cloudy days compared to sunny days this week?).	*Data *1 more, 1 less	Graphing	Various items to graph	End of chapter tests Informal assessments Observations Math journals Chapter review