

MATHEMATICS
HINSDALE SCHOOL DISTRICT

**Grade Level: Preschool
Numbers and Operations**

Knowledge & Skills	Content	Activities Resources & Materials	Assessments
<p>Understand the meanings, uses, and representations of numbers.</p> <p>EM Number and Numeration Goals:</p> <p>* Verbally Count in sequence to 10.</p> <p>*Count objects with one-to-one correspondence and know the last counting word tells “how many.”</p>	<p>* Rote Counting</p> <p>*Rational Counting</p> <p>*Place Value and Notation</p> <p>*One-to-One Correspondence</p>	<p>Core Activities in <i>Teacher’s Guide to Activities</i>:</p> <p>Counting Strand:</p> <p><i>Beginning:</i></p> <p>C-1 pp. 38-39 Rhythmic Counting C-2 pp. 40-41 Freeze Dance and Count C-5 pp. 46-47 Dice Movement Game C-8 pp. 52-53 Cover All Game</p> <p><i>Building:</i></p> <p>C-11 pp. 58-59 Counting in Funny Ways C-13 pp. 62-63 Racing Cars Game C-18 pp. 72-73 Building Towers Game</p>	<p><u>Ongoing Assessment –</u> <i>Teacher’s Guide to Activities</i> page 35</p> <p><u>Assessment Handbook:</u></p> <p>*Pre-K goals: p. 6-11</p> <p>*Counting Assessment Overview pp. 26-27</p> <p>*Baseline Periodic Assessment, Tasks 1 and 2 p. 19</p> <p>*End of Year Periodic Assessments Tasks 1 and 2, p. 22</p>

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<p>Understand common numerical relations</p> <p>Everyday Math Goals:</p> <p>*Develop an awareness of numbers and their uses; associate number names, quantities and written numerals; recognize and use different ways to represent numbers (groups of objects or dots)</p> <p>*Compare and order groups of objects using words such as <i>more, fewer, less, same.</i></p>	<p>*Comparing and ordering numbers</p>	<p>Core Activities in <i>Teacher's Guide to Activities</i>:</p> <p>Number Concepts Strand:</p> <p><i>Beginning:</i></p> <p>N-2 pp 96-97 Number Walk N-3 pp.98-99 Number Stations 1 N-5 pp.102-103 Matching Sets Game 1 N-6 pp. 104-105 Comparing in Trays N-7 pp. 106-107 Number Board Game</p> <p><i>Building:</i></p> <p>N-9 pp.110-111 Match Up Game N-10 pp. 112-113 Matching Sets Game II N-15 pp. 122-123 High/Low Game</p>	<p><u>Ongoing Assessment –</u> <i>Teacher's Guide to Activities</i> page 91</p> <p><u>Assessment Handbook:</u> *Pre-K goals: p. 6-11</p> <p>*Number Concepts Assessment Overview pp. 28-29</p> <p>*Baseline Periodic Assessment, Tasks 3 and 4 p. 19</p> <p>*End of Year Periodic Assessments Tasks 3 and 4, p. 22</p>

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<p>Understand Meanings of Operations</p> <p>Everyday Math Goals:</p> <p>*Solve and create number stories using concrete modeling; explore part-whole relationships (for example, 5 is made up of 2 and 3)</p>	<p>*Models for the operations</p>	<p>Core Activities in <i>Teacher’s Guide to Activities</i>:</p> <p>Operations Strand:</p> <p><i>Beginning:</i> O-1 pp. 140-141 One More Elephant O-2 pp. 142-143 “Take Away” Songs</p> <p><i>Building:</i> O-3 pp. 144-145 Mystery Change Game O-4 pp. 146-147 Bear Stories: Joining O-5 pp. 148-149 Bear Stories: Taking Away O-8 pp. 154-155 Number Stories Everywhere</p>	<p><u>Ongoing Assessment –</u> <i>Teacher’s Guide to Activities</i> page 137</p> <p><u>Assessment Handbook:</u> *Pre-K goals: p. 6-11</p> <p>*Operations Assessment Overview p. 30</p> <p>*End of Year Periodic Assessments Tasks 5 , p. 23</p>

MATHEMATICS
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**Grade Level: Preschool
Data and Chance**

Knowledge & Skills	Content	Activities Resources & Materials	Assessments
<p>*Select and create appropriate graphical representations of collected or given data.</p> <p>*Analyze and Interpret Data</p> <p>Everyday Math Goals:</p> <p>*Collect and represent data in a variety of ways focusing on concrete and pictorial representations</p> <p>* Use graphs to answer simple questions</p>	<p>*Data Collection and representation</p> <p>* Data Analysis</p>	<p>Core Activities in <i>Teacher's Guide to Activities</i>:</p> <p>Graphing Strand:</p> <p><i>Beginning:</i></p> <p>G-2 pp. 174-175 Age Graph G-3 pp. 176-177 Shoe Graph G-4 pp. 178-179 Getting-to-Know-You Graphs G-5 pp. 180-181 Classroom Voting</p> <p><i>Building:</i></p> <p>G-7 pp. 184-185 Graphing with Connecting Cubes</p>	<p><u>Ongoing Assessment –</u> <i>Teacher's Guide to Activities</i> page 169</p> <p><u>Assessment Handbook:</u></p> <p>*Pre-K goals: p. 6-11</p> <p>*Graphing Assessment Overview p. 31</p> <p>*End of Year Periodic Assessments Tasks 6 , p. 23</p>

MATHEMATICS
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Grade Level: Preschool
Geometry and Measurement

Knowledge & Skills	Content	Activities Resources & Materials	Assessments
<p>*Understand the systems and processes of measurement.</p> <p>*Use appropriate techniques, tools, units, and formulas in making measurements</p> <p>Everyday Math Goals: *Distinguish and describe size attributes, including length, weight, and capacity or volume.</p> <p>*Compare objects according to various size attributes.</p> <p>*Become familiar with standard measuring tools and their uses.</p> <p>*Begin to understand the concept of measurement units and the idea that measurement can be quantified.</p> <p>*Sequence familiar events in time.</p>	<p>*Length, weight and angles</p> <p>*Units and Systems of measurement</p> <p>*Time</p>	<p>Core Activities in <i>Teacher’s Guide to Activities</i>:</p> <p>Measurement Strand:</p> <p><i>Beginning:</i> M-1 pp. 200-201 Bigger and Smaller</p> <p><i>Building:</i> M-3 pp. 204-205 Comparing Shoe Lengths M-6 pp. 210-211 Exploration of the Pan Balance M-8 pp. 214-215 Ordering the Day M-10 pp. 218-219 Exploration of Capacity M-11 pp. 220-221 In a Row M-12 pp. 222-223 Exploration of Standard Measuring Tools M-13 pp. 224-225 Classroom Cooking</p>	<p><u>Ongoing Assessment –</u> <i>Teacher’s Guide to Activities</i> page 197</p> <p><u>Assessment Handbook:</u> *Pre-K goals: p. 6-11</p> <p>*Measurement Assessment Overview p. 32-33</p> <p>*Baseline Periodic Assessment Task 5, p. 20</p> <p>*End of Year Periodic Assessments Tasks 7 and 8, p. 23</p>

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Grade Level: Preschool
Geometry and Measurement

Knowledge & Skills	Content	Activities Resources & Materials	Assessments
<p>Investigate characteristics and properties of two-and-three dimensional geometric shapes.</p> <p>Everyday Math Goal:</p> <p>* Recognize and describe basic 2-dimensional geometric shapes; explore the relationships between basic 2-dimensional and 3-dimensional shapes</p>	<p>*Plane and Solid Figures</p> <p>*Transformations and symmetry</p>	<p>Core Activities in <i>Teacher's Guide to Activities</i>:</p> <p>Shapes Strand:</p> <p><i>Beginning:</i></p> <p>S-1 pp. 244-245 Floor Shapes S-2 pp. 246-247 Tactile Shapes S-4 pp. 248-249 Shape Walk</p> <p><i>Building:</i></p> <p>S-7 pp. 256-257 Shapes by Feel S-9 pp. 260-261 Sorting Shapes</p> <p>.</p>	<p><u>Ongoing Assessment –</u> <i>Teacher's Guide to Activities</i> page 241</p> <p><u>Assessment Handbook:</u></p> <p>*Pre-K goals: p. 6-11</p> <p>*Shapes Assessment Overview p. 34</p> <p>*Baseline Periodic Assessment Task 6, p. 20</p> <p>*End of Year Periodic Assessments Tasks 9, p. 23</p>

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Geometry and Measurement

Knowledge & Skills	Content	Activities Resources & Materials	Assessments
<p>Investigate characteristics and properties of two-and-three dimensional geometric shapes.</p> <p>Everyday Math Goal:</p> <p>* Recognize and describe the position and location of objects; use spatial reasoning in concrete tasks, such as putting together puzzles and creating collages and block structures</p>	<p>*Plane and Solid Figures</p> <p>*Transformations and symmetry</p>	<p>Core Activities in <i>Teacher's Guide to Activities</i>:</p> <p>Position and Spatial Relations Strand:</p> <p><i>Beginning:</i> R-1 pp. 274-275 Teddy Bear Positions</p> <p><i>Building:</i> R-3 pp. 278-279 Pattern-Block Puzzles 1 R-5 pp. 282-283 Obstacle Course</p> <p>.</p>	<p><u>Ongoing Assessment –</u> <i>Teacher's Guide to Activities</i> page 271</p> <p><u>Assessment Handbook:</u> *Pre-K goals: p. 6-11</p> <p>* Position and Spatial Relationship Assessment Overview p. 35</p> <p>*Baseline Periodic Assessment Task 7, p. 20</p> <p>*End of Year Periodic Assessments Tasks 10 and 11, p. 24</p>

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Grade Level: Preschool
Patterns, Functions, and Algebra

Knowledge & Skills	Content	Activities Resources & Materials	Assessments
<p>Understand patterns and functions</p> <p>Everyday Math Goal:</p> <p>*Recognize and match attributes of objects, such as size, shape, and color.</p> <p>*Use rules to sort objects.</p> <p>*Use rules to create and extend repeating patterns.</p>	<p>*Patterns and functions</p>	<p>Core Activities in <i>Teacher’s Guide to Activities</i>:</p> <p>Patterns and Sorting Strand:</p> <p><i>Beginning:</i></p> <p>P-1 pp. 296-297 Attribute Match P-2 pp. 298-299 Movement Patterns P-3 pp. 300-301 Officer, Officer Game P-4 pp. 302-303 Color Patterns P-5 pp. 304-305 Sorting Objects P-7 pp. 308-309 Exploration of Pattern Blocks</p> <p><i>Building:</i></p> <p>P-11 pp.316-317 Child Patterns P-13 pp. 320-321 Sorting Children P-14 pp. 322-323 Sorting Vehicles</p>	<p><u>Ongoing Assessment –</u> <i>Teacher’s Guide to Activities</i> page 293</p> <p><u>Assessment Handbook:</u> *Pre-K goals: p. 6-11</p> <p>* Patterns and Sorting Assessment Overview pp. 36-37</p> <p>*Baseline Periodic Assessment Task 8 and 9, p. 20</p> <p>*End of Year Periodic Assessments Tasks 12 and 13, p. 24</p>

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Pre-Kindergarten Resources

- Teacher's Guide to Activities
- Teacher's Reference Manual (Early Childhood)
- Assessment Handbook
- Math Masters
- Home Connection Handbook (Early Childhood)
- Resources for the Pre-Kindergarten Classroom
- Minute Math (Pre-Kindergarten)
- Classroom Manipulative Kit
- Early Childhood Games Kit
- Content by Strand Poster
- Student Materials
 - Mathematics at Home Books 1, 2, & 3

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Technology Resources

Everyday Math Resources

- **Sing Everyday! Music CD –PreKindergarten**
- **EM Games CD Version –Early Childhood**
- **eSuite Deluxe :**
 - ePlanner
 - Assessment Management System
 - EM Games Online
 - Family letters

HES Resource Folder -“Everyday Math Resources” folder – located on Hinsdale School District Server

Contains state correlations, literature lists, math messages, and grade level goals for each grade as well as training materials from workshops

Web Resources

Everyday Math Link on HES Web Site - <http://www.hnhsd.org/~hes/EverydayMath.htm>

University of Chicago School Mathematics Project: Everyday Math - <http://everydaymath.uchicago.edu/educators/>

Everyday Mathematics –(Click on Free Family Resources) -<https://www.everydaymathonline.com/>

Wright Group Support Site for Everyday Math -<http://www.everydaymathsuccess.com/index.html>