

**CORRELATION**  
of  
**the Understanding Numeration PLUS & Understanding Math PLUS programs**  
with  
**Louisiana Department of Education: Comprehensive Curriculum**  
**Grade 1 Mathematics**  
**January 2007**

**Note: a.** The Understanding Math PLUS series of programs consist of 10 programs written for Kindergarten to 10th Grade.

**The 10 programs are:**

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|--|--|
| Understanding Fractions                | Understanding Whole Numbers and Integers |
| Understanding Probability              | Understanding Percent                    |
| Understanding Exponents                | Understanding Equations                  |
| Understanding Algebra                  | Understanding Graphing                   |
| Understanding Numeration               |  |
| Understanding Measurement and Geometry |  |

**Note: b.** The Understanding Numeration software for K to 3 is set up so that the teacher selects items in the following order:

Concept .. from 5 concepts .. Counting, Comparing & Ordering, Place Value, Operations and Problem Solving.

Skill .. chosen from the list of specific learning expectations

Level .. indicates the levels of development for Kindergarten to 3rd grade.

Level	Upper Range of Number
<b>A</b>	<b>10</b>
<b>B</b>	<b>20</b>
<b>C</b>	<b>100</b>
<b>D</b>	<b>1000</b>

Lesson .. 250 lessons are sequenced to build understanding of concepts.

A detailed Lesson Synopsis on the website [www.neufeldmath.com](http://www.neufeldmath.com) to assist the teacher by stating the lesson contents but also by giving lesson suggestions.

Worksheet .. off computer worksheets are selected from the CD by a code.

**Note: c.** The remaining 9 Understanding Math programs for 4th to 10th grade are set up so that they can be used in a variety of teaching and learning environments ranging from a teacher centered approach with 1 computer to a student centered lab approach. The lessons can also be used in remediation, tutorial, intervention, resource, fast-tracking.

Each topic has:

- ..an interactive concept introduction, usually with a variety of graphic approaches.
- ..a number of particular examples
- ..practice questions with random questions but particular feedback
- ..a topic test with random questions and tracking
- ..off computer worksheets selected from the website .. [www.neufeldmath.com](http://www.neufeldmath.com)

## Unit 1: Graphs and Numbers to 31

The focus in this unit is on extending the understanding of number, pattern, Venn diagrams, and bar graphs. In conjunction with the calendar, using ordinal numbers to 31<sup>st</sup> and grouping by 10s will be included.

Expectation or Standard	Understanding Math PLUS and/or Understanding Numeration PLUS Lessons
<p><b>Activity 1: Building Numbers (GLE: 1, 2)</b>            Building Numbers Using Dot Pattern Card            Dot Flash Cards            Matching Games With Dot Flash Cards            Overhead Dots            Where Does It Belong?            Ten Trains            Counting With Tally Marks            Press and Say            What's in My Bag?            Making Trains            Counting and Comparing Letters in Our Names            What Things Are Six?</p> <p><b>Activity 2: Writing Numbers (GLE: 2)</b>            Roll and Write            Find, Press and Write</p>	<p><b><u>Understanding Numerations PLUS</u></b>  <b><u>COUNTING</u></b>  <b>Reading and Printing Numerals</b>  <b>Level A</b>            Introduction : Counting 1 to 10: worksheet #1, #2            Things in a Square #1            Join up to 10 Dots</p> <p><b>Skill – Estimating the Number of Objects and Reasonableness</b>  <b>Level A</b>            Estimate the Handful            Dot Flash Cards</p> <p><b>Skill – 1 to 1 Correspondence of # to Objects</b>  <b>Level A</b>            Keep Track by Marking: Worksheets #1, #2</p> <p><b><u>COMPARING AND ORDERING</u></b>  <b>Skill – Locate Numbers on a Number Line</b>  <b>Level A</b>            Find One Missing Number            Find Two Missing Numbers</p>
<p><b>Activity 3: Calendar Math (GLE: 2, 4, 10)</b>            Ordinal Numbers            Writing the Number            Taking Down the Calendar</p>	<p><b><u>Understanding Numerations PLUS</u></b>  <b><u>COMPARING AND ORDERING</u></b>  <b>Skill – Use Ordinal Numbers</b>  <b>Level A/B</b>            Ordering Ladybugs            The Steps</p>
<p><b>Activity 4: Number Line Math (GLEs: 1, 2, 10)</b>            Days in School Number Line            Count Up and Back            What Comes Before, After, and Between?            Straw Count            One to One Hundred Chart</p>	<p><b><u>Understanding Numerations PLUS</u></b>  <b><u>COUNTING</u></b>  <b>Reading and Printing Numerals</b>  <b>Level A</b>            Building a Number Line            Building a Vertical Number Line</p>

	<p><b>Skill – Counting Backwards</b>  <b>Level A/B</b>  Counting Backwards  Counting Up and Down #1, #2</p> <p><b>Skill – Count on from a Given Number</b>  <b>Level A</b>  Show/Cover UP/Count On  Cover Up/Count On</p> <p><b>Skill – Skip Counting and Patterns</b>  <b>Level C</b>  Patterns in Rows: worksheet #1, #2  Skip Counting to 100</p> <p><b><u>COMPARING AND ORDERING</u></b>  <b>Skill – Locate Numbers on a Number Line</b>  <b>Level A</b>  Find One Missing Number  Find Two Missing Numbers</p>
<p><b>Activity 5: Pattern, Pattern, Pattern (GLEs: 35, 36)</b>  Rhythmic Patterns  Other Words for Rhythmic Patterns  Pattern Trains With Math Materials</p>	
<p><b>Activity 6: Rope It! (GLEs: 10, 11)</b></p>	<p><b><u>Understanding Numerations PLUS</u></b>  <b><u>COMPARING AND ORDERING</u></b>  <b>Skill – “Just Before”... “Just After” ... “Between”</b>  <b>Level B</b>  “Just Before” Machine #1: Worksheets #1, #2  “Just After” Machine #1: Worksheets #1, #2</p>
<p><b>Activity 7: Read It – Build It (GLE: 2)</b></p>	<p><b><u>Understanding Numerations PLUS</u></b>  <b><u>COUNTING</u></b>  <b>Skill – Associating Numbers in a Real World Context</b>  <b>Level A</b>  The Street Scene: Worksheets #1, #2  The Zoo</p>

<p><b>Activity 8: Locate It (GLEs: 2, 10)</b></p>	<p><b><u>Understanding Numerations PLUS</u></b>  <b><u>COMPARING AND ORDERING</u></b>  <b>Skill – Locate Numbers on a Number Line</b>  <b>Level A</b>  Find One Missing Number  Find Two Missing Numbers</p> <p><b>Skill – Locate Whole Numbers on a Grid</b>  <b>Level C</b>  Numbers on a 0 to 100 Grid : worksheet #1, #2</p>
<p><b>Activity 9: Estimate! (GLE: 9)</b>  <b>Activity 10: Compare and Go! (GLE: 9)</b></p>	<p><b><u>Understanding Numerations PLUS</u></b>  <b><u>COUNTING</u></b>  <b>Skill – Estimating the Number of Objects and Reasonableness</b>  <b>Level A</b>  Estimate the Handful  Dot Flash Cards</p> <p><b>Level B</b>  Estimating and Counting</p>
<p><b>Activity 11: Scoop It! (GLE: 9)</b></p>	
<p><b>Activity 12: Concrete Graphs (GLE: 32)</b>  <b>Activity 13: Graphing (GLE: 32)</b></p>	<p><b><u>Understanding Numerations PLUS</u></b>  <b><u>OPERATIONS</u></b>  <b>Skill – Given Graphs...Perform Operations</b>  <b>Level D</b>  Operations with Tally Charts: Worksheets #1, #2</p>
<p><b>Activity 14: How Many Claps? (GLE 32,)</b></p>	
<p><b>Activity 15: Sort It! (GLE: 33)</b></p>	
<p><b>Activity 16: Attribute Sort (GLE: 33)</b></p>	
<p><b>Activity 17: Data Sort (GLEs: 32, 33)</b></p>	
<p><b>Activity 18: My Ten Dot Book (GLEs: 2, 3)</b></p>	

## Unit 2: Exploring Addition and Subtraction - Ways to Make Numbers Through 10

The focus in this unit is on developing the concepts of addition and subtraction and related facts as they exist for set sizes of 10 or less. The study of pattern is also continued.

Expectation or Standard	Understanding Math PLUS and/or Understanding Numeration PLUS Lessons
<p><b>Activity 1: Let’s Be Actors! (GLE’s 15,17,18)</b></p> <p><b>Activity 2: Act It Out! (GLEs: 17, 18)</b></p> <p><b>Activity 3: How Do We Write? (GLEs: 13, 15, 18)</b></p>	<p><b><u>Understanding Numeration PLUS</u></b>  <b><u>OPERATIONS</u></b></p> <p><b>Skill – Introduce Addition...concretely... “in all” &amp; “together”</b>  <b>Level A</b>            Addition Using Gumballs #1: Worksheets #1, #2            Addition Using Beans #1: Worksheets #1, #2            Add Number of Sides of Shapes #1: Worksheets #1, #2</p> <p><b>Skill – Introduce Addition Concretely... “and”</b>  <b>Level A</b>            Addition Using Gumballs #2: Worksheets #1, #2            Addition Using Beans #2: Worksheets #1, #2            Add Number of Sides of Shapes #2: Worksheets #1, #2</p> <p><b>Skill – Introduce the Symbolism...# + # =</b>  <b>Level A</b>            Addition Using Gumballs #3: Worksheets #1, #2            Addition Using Beans #3: Worksheets #1, #2            Add Number of Sides of Shapes #3: Worksheets #1, #2</p> <p><b>Skill – Introduce the words... “plus” and “equals”</b>  <b>Level A</b>            Addition Using Gumballs #4: Worksheets #1, #2            Addition Using Beans #4: Worksheets #1, #2            Add Number of Sides of Shapes #4: Worksheets #1, #2</p>
<p><b>Activity 4: How Many Jumps? (GLEs: 15, 18)</b></p>	
<p><b>Activity 5: Shake the Beans! (GLEs: 17, 18)</b></p>	<p><b><u>Understanding Numeration PLUS</u></b>  <b><u>OPERATIONS</u></b></p> <p><b>Skill – Demonstrate Addition Facts ... Making 5</b>  <b>Level A</b>            Ways to Make 5: Worksheets #1, #2            Ways to Make 5 : Reverse Order worksheets #1, #2            Make 5: Horizontal &amp; Vertical worksheets #1, #2</p>

<b>Activity 6: Which is the Most Popular? (GLEs: 18, 32, 34)</b>	
<b>Activity 7: Shake, Shake, Shake! (GLE: 17)</b>	<p><b><u>Understanding Numeration PLUS OPERATIONS</u></b></p> <p><b>Skill – Demonstrate Addition Facts ... Making 6 Level A</b>  Ways to Make 6: Worksheets #1, #2  Ways to Make 6 : Reverse Order worksheets #1, #2  Make 6: Horizontal &amp; Vertical worksheets #1, #2</p> <p><b>Skill – Demonstrate Addition Facts ... Making 7 Level A</b>  Ways to Make 7: Worksheets #1, #2  Ways to Make 7 : Reverse Order worksheets #1, #2  Make 7: Horizontal &amp; Vertical worksheets #1, #2</p> <p><b>Skill – Demonstrate Addition Facts ... Making 8 Level A</b>  Ways to Make 8: Worksheets #1, #2  Ways to Make 8 : Reverse Order worksheets #1, #2</p> <p><b>Skill – Demonstrate Addition Facts ... Making 9 Level A</b>  Ways to Make 9: Worksheets #1, #2  Ways to Make 9 : Reverse Order worksheets #1, #2</p> <p><b>Skill – Demonstrate Addition Facts ... Making 10 Level A</b>  Ways to Make 10: Worksheets #1, #2  Ways to Make 10 : Reverse Order worksheets #1, #2</p>
<b>Activity 8: Buttons, Buttons (GLEs: 13, 15, 17, 18)</b>	
<b>Activity 9: Back and Forth! (GLEs: 10, 11)</b>	<p><b><u>Understanding Numeration PLUS COUNTING</u></b></p> <p><b>Skill – Reading and Printing Numerals Level C</b>  Counting 0 to 100 on a Grid</p>
<b>Activity 10: Rhythm Counting (GLE: 11)</b>	

<p><b>Activity 11: Trains (GLEs: 13, 17, 18)</b></p> <p><b>Activity 12: Under the Bowl (GLEs: 13, 17)</b></p>	<p><b><u>Understanding Numeration PLUS</u></b>  <b><u>OPERATIONS</u></b>  <b>Skill – Introduce Subtraction Concretely... “take away”</b>  <b>Level A</b>  Introduction to Subtractions #1: Worksheets #1, #2  Introduction to Subtractions #2: Worksheets #1, #2  Introduction to Subtractions #3: Worksheets #1, #2  Introduction to Subtractions #4: Worksheets #1, #2</p> <p><b>Skill – Introduce Subtraction Symbolism</b>  <b>Level A</b>  Introduce Vertical Subtraction : Worksheets #1, #2  Subtraction Sentences</p>
<p><b>Activity 13: Equations (GLEs: 17, 18)</b></p>	<p><b><u>Understanding Numeration PLUS</u></b>  <b><u>PROBLEM SOLVING</u></b>  <b>Skill – Number Sentence</b>  Oranges  Bill’s Ball</p>
<p><b>Activity 14: Dominoes (GLEs: 13, 17, 18)</b>  Domino Equations  Draw a Domino  Subtraction Domino  Compare</p> <p><b>Activity 15: Lets Write a Book: (GLEs: 15, 17, 18)</b></p> <p><b>Activity 16: Finding All The Combinations (GLE: 17)</b></p> <p><b>Activity 17: How many patterns can we make? (GLEs: 35, 36)</b></p> <p><b>Activity 18: Pattern Rugs! (GLEs: 35, 36, 20)</b></p>	<p><b><u>Understanding Numeration PLUS</u></b>  <b><u>OPERATIONS</u></b>  <b>Skill – Fact Families...Add &amp; Subtract</b>  <b>Level A</b>  Doubles – Add and Subtract  Relate Addition and Subtraction : Worksheets #1, #2  Fact Families</p>

### Unit 3: Doubles, Near Doubles, Turn Arounds, and Friends

The unit focus is on addition and subtraction strategies for 0s, 1s, 10s facts, doubles, doubles  $\pm$  1, counting-on, counting back and turn-around facts (commutative pairs).

Expectation or Standard	Understanding Math PLUS and/or Understanding Numeration PLUS Lessons
<p><b>Activity 1: Patterns (GLEs 1, 35)</b>  <b>Activity 2: Count by Ten (GLEs: 1, 2, 35)</b>  <b>Activity 3: Count by Five (GLEs: 1, 2, 35)</b></p>	<p><b><u>Understanding Numeration PLUS</u></b>  <b><u>COUNTING</u></b>  <b>Skill – Skip Counting and Patterns</b>  <b>Level C</b>            Patterns in Rows: worksheet #1, #2            Skip Counting to 100            Skip Count by 2s to 100 : worksheet #1, #2            Next by 5s            Next by 2s : worksheet #1, #2</p>
<p><b>Activity 4: Tile It! (GLEs: 12, 13, 17)</b>  <b>Activity 5: Stack It! (GLEs: 2, 12)</b>  <b>Activity 6: Bear Count (GLEs: 12, 13)</b>  <b>Activity 7: Under the Bowl (GLEs: 12, 13, 17)</b>  <b>Activity 8: Number Family Dominoes (GLEs: 12, 13)</b>  <b>Activity 9: Rolling Cubes (GLEs: 12, 13, 17)</b></p>	<p><b><u>Understanding Numeration PLUS</u></b>  <b><u>OPERATIONS</u></b>  <b>Skill – Demonstrate Addition Facts ... Making 7</b>  <b>Level A</b>            Ways to Make 7: Worksheets #1, #2            Ways to Make 7 : Reverse Order worksheets #1, #2            Make 7: Horizontal &amp; Vertical worksheets #1, #2</p> <p><b><u>OPERATIONS</u></b>  <b>Skill – Demonstrate Addition Facts ... Making 8</b>  <b>Level A</b>            Ways to Make 8: Worksheets #1, #2            Ways to Make 8 : Reverse Order worksheets #1, #2</p> <p><b><u>OPERATIONS</u></b>  <b>Skill – Demonstrate Addition Facts ... Making 9</b>  <b>Level A</b>            Ways to Make 9: Worksheets #1, #2            Ways to Make 9 : Reverse Order worksheets #1, #2</p> <p><b><u>OPERATIONS</u></b>  <b>Skill – Demonstrate Addition Facts...Patterns</b>  <b>Level A/B</b>            Bar Machine : Worksheets #1, #2            Decomposition Tree #1, #2            Adding Along the Number Line            Skill – Fact Families...Add &amp; Subtract</p>

	<p><b>Level A</b> Doubles – Add and Subtract Relate Addition and Subtraction : Worksheets #1, #2 Fact Families</p> <p><b>Skill – Fact Families...Add &amp; Subtract</b></p> <p><b>Level B</b> Doubles – Add and Subtract Fact Families</p> <p><b>Skill – Fact Families...Add &amp; Subtract</b></p> <p><b>Level C</b> Check Subtraction by Addition</p>
<p><b>Activity 10: Counting-on With the Larger Number</b> (GLEs: 12, 13, 17)</p>	<p><b><u>Understanding Numeration PLUS</u></b> <b><u>COUNTING</u></b> <b>Skill – Count on from a Given Number</b> <b>Level A</b> Show/Cover Up/Count On Cover Up/Over On</p>
<p><b>Activity 11: Designing Numbers (GLEs: 12, 13, 17)</b></p>	<p><b><u>Understanding Numeration PLUS</u></b> <b><u>OPERATIONS</u></b> <b>Skill – Addition Strategies</b> <b>Level A/B</b> Tens and Doubles #1, #2</p>
<p><b>Activity 12: Model It! (GLEs: 17, 18)</b></p>	
<p><b>Activity 13: Ready, Set, Hop! (GLEs: 2, 17, 18)</b></p>	
<p><b>Activity 14: Adding One to a Number (GLEs: 12, 17, 35)</b></p>	
<p><b>Activity 15: Adding and Taking Away Zero (GLE: 12)</b></p>	
<p><b>Activity 16: Doubles Dominoes (GLE: 12)</b></p> <p><b>Activity 17: Doubles Bugs (GLEs: 17, 12)</b></p> <p><b>Activity 18: Doubles Chart (GLE: 12)</b></p>	<p><b><u>Understanding Numeration PLUS</u></b> <b><u>OPERATIONS</u></b> <b>Skill – Addition Strategies</b> <b>Level A/B</b> Tens and Doubles #1, #2</p>

<b>Activity 19: How Many Points? (GLEs: 1, 12, 35)</b>	<u><b>Understanding Numeration PLUS</b></u> <u><b>COUNTING</b></u> <b>Skill – Skip Counting and Patterns</b> <b>Level C</b> Patterns in Rows: worksheet #1, #2 Skip Counting to 100 Skip Count by 2s to 100 : worksheet #1, #2 Next by 5s Next by 2s : worksheet #1, #2
<b>Activity 20: Doubles Plus One Dominoes (GLE: 12)</b>	
<b>Activity 21: Counting Trains (GLEs: 5, 35)</b>	
<b>Activity 22: What Are The Parts of Ten? (GLEs: 12, 35)</b>  <b>Activity 23: Make a Ten (GLE: 12)</b>	<u><b>Understanding Numeration PLUS</b></u> <u><b>OPERATIONS</b></u> <b>Skill – Demonstrate Addition Facts ... Making 10</b> <b>Level A</b> Ways to Make 10: Worksheets #1, #2 Ways to Make 10 : Reverse Order worksheets #1, #2  <u><b>PLACE VALUE</b></u> <b>Skill – Break Numbers into Groups</b> <b>Level B</b> Making Groups: worksheet #1, #2
<b>Activity 24: Pattern Counting With the Calculator (GLEs: 1, 2, 35)</b>	

## Unit 4: Shapes, Sizes, Comparing, and Fractions

The focus in this unit is geometry, fractions of  $\frac{1}{2}$ , probability, and pattern.

Expectation or Standard	Understanding Math PLUS and/or Understanding Numeration PLUS Lessons
<p><b>Activity 1: Let's Half It!</b> (GLE: 6, 26, 28)</p> <p><b>Activity 2: Halves Everywhere!</b> (GLE: 6)</p>	<p><b><u>Understanding Numeration PLUS</u></b>  <b><u>COUNTING</u></b>  <b>Skill – Introduce Common Fractions as Parts of a Whole</b>  <b>Level B</b>            One Half of a Shape            Cut in Half: Worksheets #1, #2</p>
<p><b>Activity 3: 3-D Shapes</b> (GLE: 26)            Home Connection</p>	<p><b><u>Understanding Numeration PLUS</u></b>  <b><u>COUNTING</u></b>  <b>Skill – Recognize and Count Solids</b>  <b>Level B/C</b>            Counting Solids #1            Counting Solids #2</p>
<p><b>Activity 4: Making Shapes</b> (GLE: 26)</p>	<p><b><u>Understanding Numeration PLUS</u></b>  <b><u>COUNTING</u></b>  <b>Skill – Recognize and Count Two-Dimensional Figures</b>  <b>Level B/C</b>            Counting 2-D Figures #1, #2</p>
<p><b>Activity 5: Real Geometry</b> (GLEs: 26, 27)</p>	<p><b><u>Understanding Numeration PLUS</u></b>  <b><u>COUNTING</u></b>  <b>Skill – Recognize and Count Solids</b>  <b>Level B/C</b>            Counting Solids #1            Counting Solids #2</p>
<p><b>Activity 6: Repeat It</b> (GLEs: 35, 36)</p>	
<p><b>Activity 7: Translations</b> (GLE: 30)</p>	<p><b><u>Understanding Math PLUS</u></b>  <b><u>Understanding Graphing</u></b>  <b>Topic 4. Transformations</b>            Introduction to Common Transformations            Translations - An Introduction            Slide #1, #2, #3, #4</p>
<p><b>Activity 8: Is It Congruent?</b> (GLE: 30)</p>	
<p><b>Activity 9: Reproducing Shapes</b> (GLEs: 28, 31)</p>	

<b>Activity 10: Creatures With A Line of Symmetry (GLEs: 28, 31)</b>	<u><b>Understanding Math PLUS</b></u> <u><b>Understanding Graphing</b></u> <b>Topic 4. Transformations</b> Line of Symmetry - An Introduction Introduction
<b>Activity 11: Creating New Shapes (GLEs: 26, 29)</b>	
<b>Activity 12: Making A Picture (GLEs: 29, 31)</b>	
<b>Activity 13: How Likely is It? (GLE: 34)</b> <b>Activity 14: Most Likely (GLE: 34)</b>	<u><b>Understanding Math PLUS</b></u> <u><b>Understanding Probability</b></u> <b>Topic 1. Introduction to Probability</b> The Language of Chance Impossible to Certain Activity 1, 2

## Unit 5: Grabbing 10s and Getting Numbers to 99

This unit focuses on extending the number system to 100 by making 10 sets of 10s and reading and recognizing number representations through 100.

Expectation or Standard	Understanding Math PLUS and/or Understanding Numeration PLUS Lessons
<b>Activity 1: Patterns on the Hundreds Chart (GLEs: 1, 35)</b>	<u><b>Understanding Numeration PLUS</b></u> <u><b>COMPARING AND ORDERING</b></u> <b>Skill – Locate Whole Numbers on a Grid</b> <b>Level C</b> Numbers on a 0 to 100 Grid : worksheet #1, #2 Missing Numbers to 100: worksheet #1, #2
<b>Activity 2: Place Value (GLEs: 1, 5, 10, 11, 35)</b> <b>Activity 3: Estimate and Count (GLEs: 2, 9)</b> <b>Activity 4: Cover It! (GLEs: 1, 2, 5, 9)</b> <b>Activity 5: Making 10 (GLEs: 5, 10)</b>	<u><b>PLACE VALUE</b></u> <b>Skill – Break Numbers into Groups</b> <b>Level B</b> Making Groups: worksheet #1, #2 <b>Level C</b> Break 12 into Groups: Worksheets #1, #2  <b>Skill – Identify Place Value Patterns (to 20)</b> <b>Level C</b> Pictures to Numbers #1: worksheet #1, #2 Tens and Ones to Pictures #1: worksheet #1, #2 Numbers to Pictures #1: worksheet #1, #2
<b>Activity 6: Roping Numbers (GLE: 10)</b>  <b>Activity 7: Before and After (GLEs: 10, 16)</b>	<u><b>Understanding Numeration PLUS</b></u> <u><b>COMPARING AND ORDERING</b></u> <b>Skill – Working with Whole Numbers &gt;, &lt;, =</b> <b>Level A</b> > and < on a Numberline #1 Make it True  <b>Level B/C</b> Make it True #2 “ Great Than, Less Than #2” Ordering ...Horizontal #2 Ordering ... Vertical #2 Compare Numbers #1  <b>Level D</b> Compare Numbers #2

	<p><b><u>COMPARING AND ORDERING</u></b>  <b>Skill – “Just Before”... “Just After” ... “Between”</b>  <b>Level B</b>  “Just Before” Machine #1: Worksheets #1, #2  “Just After” Machine #1: Worksheets #1, #2</p> <p><b><u>COMPARING AND ORDERING</u></b>  <b>Skill – “Just Before”... “Just After” ... “Between”</b>  <b>Level C</b>  “Just Before” Machine #2: Worksheets #1, #2  “Just After” Machine #2: Worksheets #1, #2  In Between #1, #2</p>
<b>Activity 8: Forwards and Backwards (GLEs: 10, 11, 35)</b>	<p><b><u>Understanding Numeration PLUS</u></b>  <b><u>COMPARING AND ORDERING</u></b>  <b>Skill – Locate Whole Numbers on a Grid</b>  <b>Level C</b>  Numbers on a 0 to 100 Grid : worksheet #1, #2  Missing Numbers to 100: worksheet #1, #2</p>
<b>Activity 9: Patterns (GLEs: 10, 11, 35)</b>	
<b>Activity 10: Race to a Dollar (GLEs: 1, 5, 8,)</b>	<p><b><u>Understanding Numeration PLUS</u></b>  <b><u>COUNTING</u></b>  <b>Skill – Counting Using Money</b>  <b>Level B</b>  “Pennies, Nickels, Dimes”: worksheet #1, #2  “Coins – Count by 10s, 5s, and 1s” : worksheet #1, #2</p> <p><b>Skill – Counting Using Money</b>  <b>Level C</b>  Quarters: worksheet #1, #2  <b>Level D</b>  Dollars: worksheet #1, #2</p>
<b>Activity 11: Race To One Hundred (GLEs: 1, 5)</b> <b>Activity 12: Race To Zero (GLEs: 1, 5)</b> <b>Activity 13: One Hundred Poster (GLEs: 1, 5)</b> <b>Activity 14: Base Ten Riddles (GLEs: 2, 5)</b>	<p><b><u>Understanding Numeration PLUS</u></b>  <b><u>PLACE VALUE</u></b>  <b>Skill – Identify Place Value Patterns (to 20)</b>  <b>Level C</b>  Pictures to Numbers #1: worksheet #1, #2  Tens and Ones to Pictures #1: worksheet #1, #2  Numbers to Pictures #1: worksheet #1, #2</p>

	<b>Skill – Identify Place Value Patterns (to 100)</b> <b>Level C</b> Pictures to Numbers #2: worksheet #1, #2 Tens and Ones to Pictures #2: worksheet #1, #2 Numbers to Pictures #2: worksheet #1, #2
<b>Activity 15: Count It, Press It (GLEs: 1, 5)</b>	
<b>Activity 16: Eye Graph (GLEs: 1, 35, 36)</b>	<u><b>Understanding Numeration PLUS</b></u> <u><b>COUNTING</b></u> <b>Skill – Skip Counting and Patterns</b> <b>Level C</b> Skip Count by 2s to 100 : worksheet #1, #2
<b>Activity 17: Guess My Number (GLEs: 1, 5)</b>	
<b>Activity 18: How Many Feet? (GLEs: 1,18, 36)</b>	
<b>Activity 19: The King’s Commissioners (GLEs: 1, 2, 5)</b>	<u><b>Understanding Numeration PLUS</b></u> <u><b>COUNTING</b></u> <b>Skill – Skip Counting and Patterns</b> <b>Level C</b> Next by 5s Next by 2s : worksheet #1, #2

## Unit 6: Nickels and Dimes, As Well as Time

In this unit, the focus is on time, money, and work with the calendar as well as work with temperature and the use of a thermometer.

Expectation or Standard	Understanding Math PLUS and/or Understanding Numeration PLUS Lessons
<p>Activity 1: Name The Coins (GLEs: 7, 8)</p> <p>Activity 2: Alike and Different (GLE: 7)</p> <p>Activity 3: Can You Feel It? (GLE: 7)</p> <p>Activity 4: I'm The Banker (GLE: 8)</p>	<p><u>Understanding Math PLUS</u> <u>NUMERATION</u> <u>COUNTING</u> <u>Skill – Counting Using Money</u> <b>Level B</b> “ Pennies, Nickels, Dimes”: worksheet #1, #2 “ Coins – Count by 10s, 5s, and 1s” : worksheet #1, #2</p>
<p>Activity 5: Do You Have Cents? (GLE: 8)</p> <p>Activity 6: Count by Nickels to a Dollar (GLE: 8)</p> <p>Activity 7: Let’s Shop (GLEs: 7, 8)</p>	<p><u>Understanding Math PLUS</u> <u>NUMERATION</u> <u>COUNTING</u> <u>Skill – Counting Using Money</u> <b>Level C</b> Quarters: worksheet #1, #2 <b>Level D</b> Dollars: worksheet #1, #2</p>
<p>Activity 8: Calendar Talk (GLE: 21)</p>	
<p>Activity 9: Telling Time (GLE: 21)</p> <p>Activity 10: Time to the Hour (GLE: 21)</p>	<p><u>Understanding Math PLUS</u> <u>COMPARING AND ORDERING</u> <u>Skill – Understand Measurement of Time</u> <b>Level B</b> The Clock: An Introduction #1, #2 Times to the Hour: worksheet #1, #2  <b>Level B/C</b> Analog and Digital Time to the Half Hour: worksheet #1, #2</p>
<p>Activity 11: Using a Thermometer (GLE: 25)</p> <p>Activity 12: How Cold/ Hot is It? (GLE: 25)</p>	<p><u>Understanding Math PLUS</u> <u>COMPARING AND ORDERING</u> <u>Skill – Reading and Comparing Temperatures</u> <b>Level C</b> Fahrenheit and Celsius Temperatures: Worksheets #1, #2 Compare Temperatures in a Day: Worksheets #1, #2</p>

## Unit 7: Meaningful Measurement

Work in this unit focuses on the use of nonstandard and standard units of measurement (e.g., inches, centimeters, cups). The focus is on basic understandings and development of comparison skills with respect to length.

Expectation or Standard	Understanding Math PLUS and/or Understanding Numeration PLUS Lessons
<b>Activity 1: Why Measure? (GLEs: 22, 23)</b> <b>Activity 2: How Much Have You Measured? (GLE: 32)</b>	
<b>Activity 3: Compare It (GLEs: 22, 23)</b>	
<b>Activity 4: Measure It! (GLE: 22)</b>	<u>Understanding Math PLUS</u> <u>Understanding Measurement and Geometry</u> <b>Topic 1. An Introduction to Measurement</b> Measurement in the News
<b>Activity 5: Estimate Then Measure! (GLEs: 20, 23)</b>	
<b>Activity 6: Body Measurements! (GLEs: 20, 23)</b>	<u>Understanding Math PLUS</u> <u>Understanding Measurement and Geometry</u> <b>Topic 1. An Introduction to Measurement</b> My Body
<b>Activity 7: Measuring Foot Prints With Linking Cubes (GLEs: 20, 22)</b>  <b>Activity 8: How Big is a Foot? (GLEs: 22, 23)</b>  <b>Activity 9: Measuring With One Inch Tiles (GLE: 20)</b>	<u>Understanding Math PLUS</u> <u>Understanding Measurement and Geometry</u> <b>Topic 1. An Introduction to Measurement</b> Establishing Benchmarks Foot Benchmarks Inch Benchmarks
<b>Activity 10: Making a Ruler With One Inch Tiles (GLE: 20)</b>	<u>Understanding Math PLUS</u> <u>Understanding Measurement and Geometry</u> <b>Topic 1. An Introduction to Measurement</b> The Ruler
<b>Activity 11: Measuring With Inches (GLE: 20)</b>	
<b>Activity 12: A Cup of This, A Cup of That! (GLEs: 9, 24)</b>	

**Unit 8: Rounding Off Numbers: Facts to 18, Place Value, and Numbers to 100**

This unit develops the concept of addition and subtraction of one- and two-digit numbers using manipulatives. It also extends number work through basic facts, estimation, and rounding off.

Expectation or Standard	Understanding Math PLUS and/or Understanding Numeration PLUS Lessons
<p><b>Activity 1: Rolling Big Numbers (GLEs: 2, 3)</b>  <b>Activity 2: Building Big Numbers (GLEs: 2, 5)</b></p>	<p><b><u>Understanding Numeration PLUS</u></b>  <b><u>PLACE VALUE</u></b>  <b><u>Skill – Break Numbers into Groups</u></b>  <b>Level B</b>                      Making Groups: worksheet #1, #2</p> <p><b>Level C</b>                      Break 12 into Groups: Worksheets #1, #2                      Break 15 into Groups                      Break 27 into Groups                      Breaking into Groups of 10: Worksheets #1, #2                      Groups of Items</p> <p><b>Skill – Identify Place Value Patterns (to 20)</b>  <b>Level C</b>                      Pictures to Numbers #1: worksheet #1, #2                      Tens and Ones to Pictures #1: worksheet #1, #2                      Numbers to Pictures #1: worksheet #1, #2</p> <p><b>Skill – Identify Place Value Patterns (to 100)</b>  <b>Level C</b>                      2 Digit Numbers – Different Ways worksheet #1</p>
<p><b>Activity 3: Adding and Subtracting With Big Numbers (GLEs: 14, 15, 18)</b></p>	<p><b><u>Understanding Numeration PLUS</u></b>  <b><u>OPERATIONS</u></b>  <b>Skill – Add 2 Digit Numbers...Concretely</b>  <b>Level C</b>                      Addition without Regrouping Worksheets #1, #2                      Addition with Regrouping Worksheets #1, #2</p> <p><b>Skill – Subtract 2 Digit Numbers...Concretely</b>  <b>Level C</b>                      Subtraction without Regrouping : worksheets #1, #2                      Subtraction with Regrouping: worksheets #1, #2</p>
<p><b>Activity 4: Four on a Row (GLEs: 2, 5, 35)</b></p>	

<p><b>Activity 5: What's Missing? (GLEs: 19, 18, 14)</b>  <b>Activity 6: How Many More? (GLE: 19)</b></p>	<p><b><u>Understanding Numeration PLUS</u></b>  <b><u>OPERATIONS</u></b>  <b>Skill – Fact Families...Add &amp; Subtract</b>  <b>Level B</b>  Doubles – Add and Subtract  Fact Families</p> <p><b>Skill – Fact Families...Add &amp; Subtract</b>  <b>Level C</b>  Check Subtraction by Addition</p>
<p><b>Activity 7: What's Missing on the One Hundred Chart? (GLEs: 1, 2, 5, 35)</b></p>	<p><b><u>Understanding Numeration PLUS</u></b>  <b><u>COMPARING AND ORDERING</u></b>  <b>Skill – Locate Whole Numbers on a Grid</b>  <b>Level C</b>  Numbers on a 0 to 100 Grid : worksheet #1, #2  Missing Numbers to 100: worksheet #1, #2</p>
<p><b>Activity 8: Wheels on a Tricycle (GLEs: 1, 2, 18, 19, 35, 36)</b></p>	
<p><b>Activity 9: Copy My Pattern (GLEs: 1, 35, 36)</b></p>	
<p><b>Activity 10: Which is Faster – the Calculator or the Pencil? (GLE: 12)</b></p>	
<p><b>Activity 11: Double Dominoes (GLE: 12)</b>  <b>Activity 12: Double Battle (GLEs: 1, 2, 12)</b></p>	<p><b><u>Understanding Numeration PLUS</u></b>  <b><u>OPERATIONS</u></b>  <b>Skill – Fact Families...Add &amp; Subtract</b>  <b>Level B</b>  Doubles – Add and Subtract  Fact Families</p> <p><b>Skill – Fact Families...Add &amp; Subtract</b>  <b>Level C</b>  Check Subtraction by Addition</p>
<p><b>Activity 13: In and Out Box (GLEs: 1, 12, 18, 19, 35)</b></p>	
<p><b>Activity 14: Input-Output Chart (GLEs: 1, 12, 18, 19, 35)</b></p>	

<p><b>Activity 15: How Many of Each? (GLEs: 12, 15, 17, 18, 19)</b></p>	<p><b><u>Understanding Numeration PLUS</u></b>  <b><u>PLACE VALUE</u></b>  <b>Skill – Break Numbers into Groups</b>  <b>Level B</b>  Making Groups: worksheet #1, #2</p> <p><b>Level C</b>  Break 12 into Groups: Worksheets #1, #2  Break 15 into Groups  Break 27 into Groups  Breaking into Groups of 10: Worksheets #1, #2  Groups of Items</p>
<p><b>Activity 16: Comparing to Understand the Difference (GLE: 15)</b></p>	<p><b><u>Understanding Numeration PLUS</u></b>  <b><u>OPERATIONS</u></b>  <b>Skill – Fact Families...Add &amp; Subtract</b>  <b>Level A</b>  Doubles – Add and Subtract  Relate Addition and Subtraction : Worksheets #1, #2</p>
<p><b>Activity 17: Rounding to the Nearest Ten (GLE: 16)</b></p>	