

## Correlation of the Understanding Numeration 2008© and the Understanding Numeration 2008© With the Bowman Primary Math Pacing Guide for Second Grade 3<sup>rd</sup> Quarter

The programs are designed for use in a variety of teaching and learning environments ranging from a teacher-centered approach with one computer to a student-centered lab approach. The lessons may also be used in remediation, tutorials, intervention, resource, and fast-tracking.

### Organization of the Understanding Numeration 2008© Program

The Understanding Numeration 2008© program consists of the following five concepts:

Counting      Operations      Place Value      Comparing and Ordering      Problem Solving

Each concept in the program covers several skills. Every skill has up to four different levels of difficulty with corresponding lessons for each level. The lessons are sequenced to build an understanding of concepts. Each concept also has the following:

- 1) an interactive concept introduction, usually with a variety of graphic approaches;
- 2) a number of particular examples;
- 3) a skill test with random questions and tracking;
- 4) worksheets with visual demonstrations on how to complete each worksheet;
- 5) teaching strategies including Math Circles Overview, Flight Plan Overview, Flight Plan Roles, and Flight Plan
- 6) Navigation Sheet are found on our website ([www.neufeldmath.com](http://www.neufeldmath.com)).

### Organization of the Understanding Math 2008© Programs

The Understanding Math 2008© series of programs consists of the following nine programs written for fourth to tenth grade:

Understanding Whole Numbers and Integers  
Understanding Measurement and Geometry  
Understanding Fractions  
Understanding Graphing  
Understanding Percent

Understanding Equations  
Understanding Probability  
Understanding Algebra  
Understanding Exponents

Each program contains several sections with several topics. Every topic has the following:

- 1) an interactive concept introduction, usually with a variety of graphic approaches;
- 2) a number of particular examples;
- 3) practice questions with random questions, but specific feedback;
- 4) a topic test with random questions and tracking;
- 5) on-line worksheets selected from our website ([www.neufeldmath.com](http://www.neufeldmath.com)).

Teachers may also search for specific topics using our search engine at <http://www.corr.neufeldmath.com>.

Standards that are **not included** in the current Understanding Numeration 2008© programs are noted as *not yet correlated*.

**Note:**

1. Green indicates the GLI (Grade Level Indicators as outlined in the State Standards (see Mathematics\_ACS.pdf)

N	Number, Number Sense and Operations Standard	M	Measurement Standard
G	Geometry and Spatial Sense Standard	P	Patterns, Functions and Algebra Standard
D	Data Analysis and Probability Standard		

2. The Understanding Math 2008 © and Understanding Numeration 2008 © correlations to the GLI's are in black
3. Correlations to the Focus of the Week are in light blue
4. Short forms.

INV	Investigations	TM	Teacher's Manual
SSN	Session	SM	Student book
*	denotes optional additions		

5. The Week location:

Week 1	Page 3	Week 4	Page 13	Week 7	Page 20
Week 2	Page 4	Week 5	Page 14	Week 8	Page 24
Week 3	Page 8	Week 6	Page 18	Week 9 &10	Page 29



**Bowman Primary Pacing Guide for Mathematics**  
**Correlated to Understanding Numeration 2008 © and Understanding Math 2008 ©**  
**Second Grade – 3<sup>rd</sup> Quarter**

<b>Week</b>	<b>Math</b>	<b>GLI</b>	<b>Understanding Numeration 2008 © and Understanding Math 2008 ©</b>
<b>Week 1</b>	<p>You may start 2 digit addition in Weeks 9 &amp; 10 of the 2nd Quarter . Weeks 1 – 4 in 3rd Quarter focus on 2 digit addition and subtraction.</p> <p>Focus: Explicit Teaching of 2 Digit Addition            Teach them several strategies but know different students will take on the strategies they understand. See attached sheet: Explicit Teaching of 2 Digit Addition and Subtraction. Also refer to Putting Together Taking Apart Invest. 5 Ssn. 4- page 118 - 122</p> <p>Day 1 Demonstrate with manipulatives – SM: use tens and ones chart.</p> <p>Day 2 Repeat with student help. Guide practice using manipulatives and overhead. Emphasize place value. Ex.: What is the value of 7 in 72?</p> <p>Day 3 SM: Introduce and practice expanded form with regrouping. 2pgs.</p> <p>Day 4 SM: Introduce and practice using number strings. 2pgs.</p> <p>Day 5 SM: Allow students to choose a strategy to solve addition problems. 2 pgs.</p>	N12	<p><i>N12. Demonstrate multiple strategies for adding and subtracting 2- or 3-digit whole numbers, such as: a. compatible numbers;</i></p> <p><b>Understanding Numeration: Operations</b>            Skill 13: Addition Strategies            Level A 1) Tens and Doubles #1            Do Skill Test - 5 questions (randomly generated)            Level B 1) Tens and Doubles #2            Do Skill Test - 5 questions (randomly generated)            Level C 1) Darts - Add 3 or 4 Numbers            Do Skill Test - 5 questions (randomly generated)</p> <p><i>N12. Demonstrate multiple strategies for adding and subtracting 2- or 3-digit whole numbers, such as: b. compensatory numbers;</i>  <b>Not yet correlated</b></p> <p><i>N12. Demonstrate multiple strategies for adding and subtracting 2- or 3-digit whole numbers, such as: c. informal use of commutative and associative properties of addition.</i></p> <p><b>Understanding Numeration: Operations</b>            Skill 12: Add 3 or 4 Numbers            Level A 1) Add 3 Numbers Vertically...#1            2) Add 3 Numbers Horizontally...#1            Level B 1) Add 3 Numbers Vertically...#2            2) Add 3 Numbers Horizontally...#2</p>



	POW Carly's Change -Direct teaching		<p><b>Understanding Whole Numbers and Integers 2008</b>  Section 9: Order of Operations  Order in Addition - Whole Numbers  Trial 1  Trial 2  Conclusion</p> <p><i>Note Week 1 Focus:</i> Explicit Teaching of 2 Digit Addition</p> <p><b>Understanding Numeration: Operations</b>  Skill 14: Add 2 Digit Numbers... Concretely  Level C 1) Addition Without Regrouping  2) Addition With Regrouping  Do Skill Test - 5 questions (randomly generated)</p>
<b>Week 2</b>	<p>Focus: Explicit Teaching of 2 Digit Addition Traditional Algorithm</p> <p>Day 1 SM:Use tens and ones chart with manipulatives.  SM: Use tens and ones template to model problems</p> <p>Day 2 SM: Using models to add R 5-5, P 5-5</p> <p>Day 3 SM:Using pictures to add R 5-7, P 5-7, P 5-8</p> <p>Day 4 SM: 2 extra practice pages</p> <p>Day 5 SM: Addition Tic Tac Toe</p> <p>POW: Money - Brett's Change</p>	N 5	<p><i>N5a. Represent fractions (halves, thirds, fourths, sixths and eighths), using words, numerals and physical models. For example: a. Recognize that a fractional part can mean different amounts depending on the original quantity.</i></p> <p><b>Understanding Numeration: Counting</b>  Skill 9: Introduce Fractions... Equal Parts  Level B 1) Two Equal Parts  2) Three Equal Parts  3) Four Equal Parts  Do Skill Test - 10 questions (randomly generated)</p> <p><b>Understanding Fractions 2008</b>  Section 1: The Meaning of Fractions  Introduction.. Think, Write, Say  Circle  Squares  Examples</p> <p>Parts of a Fraction  Part of a Whole</p>



			<p>One Half  One Third  One Quarter</p> <p>Parts of a Whole</p> <p>Three Eighths</p> <p>Write the Fraction</p> <p>Question 1  Question 2  Question 3  Question 4</p> <p>Fraction of a Gas Tank</p> <p>Fractions on a Number Line</p> <p>Halves  Thirds  Quarters  Summary</p> <p>Pattern Blocks</p> <p>Example 1  Example 2  Example 3  Example 4</p> <p>Fraction of a Pie</p> <p>Example 1  Example 2</p> <p>Fractions of a Shape</p> <p>Fraction of a Square- One Half  Fraction of a Square- One Quarter  Fraction of a Square- One Eighth  Fraction of a Square- Three Eighths  Fraction of a Hexagon- One Sixth  Fraction of a Hexagon- One Third  Fraction of a Hexagon- One Half  Fraction of a Hexagon- Two Thirds  Fraction of a Hexagon- Five Sixths  Fraction of a Octagon- One Eighth</p>
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			<p>Fraction of a Octagon- One Quarter          Fraction of a Octagon- One Half          Fraction of a Octagon- Five Eighths          Fraction of a Octagon- Three Fourths</p> <p>N5b. Represent fractions (halves, thirds, fourths, sixths and eighths), using words, numerals and physical models. For example: <b>b. Recognize that a fractional part of a rectangle does not have to be shaded with contiguous parts.</b></p> <p><b>Not yet correlated</b></p> <p>N5c. Represent fractions (halves, thirds, fourths, sixths and eighths), using words, numerals and physical models. For example: <b>c. Identify and illustrate parts of a whole and parts of sets of objects.</b></p> <p><b>Understanding Numeration: Counting</b>          Skill 10: Introduce Fractions... Part of a Whole          Level B 1) One Half          2) One Third          3) One Quarter          Do Skill Test - 10 questions (randomly generated)</p> <p><b>Skill 11: Introduce Common Fractions... Parts of a Whole</b>          Level B 1) One Half of a Shape          2) Two Thirds of a Shape          3) Three Quarters of a Shape          4) Cut in Half          5) Fifths to Tenths #1          Do Skill Test - 10 questions (randomly generated)          Level C 1) Fifths to Tenths #2          2) Write the Fraction #1          3) Write the Fraction #2          Do Skill Test - 5 questions (randomly generated)</p>
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		<p><b>Skill 12: Introduce Fraction of a Set</b>  Level C 1) Fraction of a set  Do Skill Test - 10 questions (randomly generated)</p> <p><b>Understanding Fractions 2008</b>  Section 1: The Meaning of Fractions  Introduction.. Think, Write, Say  Squares  Balls  Part of a Whole  One Half  One Third  One Quarter  Parts of a Whole  Three Eights  Write the Fraction  Question 1  Question 2  Question 3  Question 4</p> <p><i>N5d. Represent fractions (halves, thirds, fourths, sixths and eighths), using words, numerals and physical models. For example: <b>d. Compare and order physical models of halves, thirds and fourths in relation to 0 and 1.</b></i></p> <p><b>Understanding Numeration: Comparing &amp; Ordering</b>  Skill 7: Compare Fractions  Level D 1) Compare Fractions  Do Skill Test - 5 questions (randomly generated)</p>
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			<p><b>Understanding Fractions 2008</b>  Section 1: The Meaning of Fractions  Fraction Strips  Concept 1  Concept 2  Fractions on a Number Line  Halves  Thirds  Quarters  Summary</p> <p><i>Note <b>Week 2 Focus:</b> Explicit Teaching of 2 Digit Addition Traditional Algorithm</i></p> <p><b>Understanding Numeration: Operations</b>  Skill 14: Add 2 Digit Numbers... Concretely  Level C 1) Addition Without Regrouping  2) Addition With Regrouping  Do Skill Test - 5 questions (randomly generated)  Skill 15: Add 2 Digit Numbers... Abstractly  Level C 1) Addition Without Regrouping  2) Addition With Regrouping #1  3) Addition With Regrouping #2  Do Skill Test - 10 questions (randomly generated)</p>
<b>Week 3</b>	<p>Focus: Explicit Teaching of 2 Digit Subtraction  Teach them several strategies but know different students will take on the strategies they understand.  TM: See Explicit Teaching of 2 Digit Subtraction. Also refer to Putting Together Taking Apart Inv. 5 Ssn. 7 pgs. 128 - 130</p> <p>Day 1 SM: Use tens and ones chart template as you demonstrate 2 digit subtraction with</p>	N 5	<p><i>N5a. Represent fractions (halves, thirds, fourths, sixths and eighths), using words, numerals and physical models. For example: a. <b>Recognize that a fractional part can mean different amounts depending on the original quantity.</b></i></p> <p><b>Understanding Numeration: Counting</b>  Skill 9: Introduce Fractions... Equal Parts  Level B 1) Two Equal Parts  2) Three Equal Parts</p>



	<p>manipulatives.</p> <p>Day 2 SM: Go over steps and introduce expanded form. Complete 2 practice pages.</p> <p>Day 3 SM: Using 2 digit models to subtract SM: Using pictures to subtract R 6-6 SM: Extra practice page for using pictures</p> <p>Day 4 SM: Deciding when to regroup R 6-3 SM: Subtraction-Decide when to regroup</p> <p>Day 5 SM: Steps for the traditional algorithm. SM: 2 practice pages to use for this strategy.</p> <p>POW. Money and Change</p>	G 5	<p>3) Four Equal Parts Do Skill Test - 10 questions (randomly generated)</p> <p><b>Understanding Fractions 2008</b> Section 1: The Meaning of Fractions Introduction.. Think, Write, Say Circle Squares Examples</p> <p>Parts of a Fraction Part of a Whole One Half One Third One Quarter</p> <p>Parts of a Whole Three Eights</p> <p>Write the Fraction Question 1 Question 2 Question 3 Question 4</p> <p>Fraction of a Gas Tank Fractions on a Number Line Halves Thirds Quarters Summary</p> <p>Pattern Blocks Example 1 Example 2 Example 3 Example 4</p> <p>Fraction of a Pie Example 1 Example 2</p>
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		<p>Fractions of a Shape</p> <ul style="list-style-type: none"> <li>Fraction of a Square- One Half</li> <li>Fraction of a Square- One Quarter</li> <li>Fraction of a Square- One Eighth</li> <li>Fraction of a Square- Three Eighths</li> <li>Fraction of a Hexagon- One Sixth</li> <li>Fraction of a Hexagon- One Third</li> <li>Fraction of a Hexagon- One Half</li> <li>Fraction of a Hexagon- Two Thirds</li> <li>Fraction of a Hexagon- Five Sixths</li> <li>Fraction of an Octagon- One Eighth</li> <li>Fraction of an Octagon- One Quarter</li> <li>Fraction of an Octagon- One Half</li> <li>Fraction of an Octagon- Five Eighths</li> <li>Fraction of an Octagon- Three Fourths</li> </ul> <p>N5b. Represent fractions (halves, thirds, fourths, sixths and eighths), using words, numerals and physical models. For example: <b>b. Recognize that a fractional part of a rectangle does not have to be shaded with contiguous parts.</b></p> <p><i>Not yet correlated</i></p> <p>N5c. Represent fractions (halves, thirds, fourths, sixths and eighths), using words, numerals and physical models. For example: <b>c. Identify and illustrate parts of a whole and parts of sets of objects.</b></p> <p><b>Understanding Numeration: Counting</b></p> <p>Skill 10: Introduce Fractions... Part of a Whole</p> <p>Level B</p> <ul style="list-style-type: none"> <li>1) One Half</li> <li>2) One Third</li> <li>3) One Quarter</li> </ul> <p>Do Skill Test - 10 questions (randomly generated)</p>
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		<p><b>Skill 11: Introduce Common Fractions... Parts of a Whole</b></p> <p>Level B 1) One Half of a Shape  2) Two Thirds of a Shape  3) Three Quarters of a Shape  4) Cut in Half  5) Fifths to Tenths #1  Do Skill Test - 10 questions (randomly generated)</p> <p>Level C 1) Fifths to Tenths #2  2) Write the Fraction #1  3) Write the Fraction #2  Do Skill Test - 5 questions (randomly generated)</p> <p><b>Skill 12: Introduce Fraction of a Set</b></p> <p>Level C 1) Fraction of a set  Do Skill Test - 10 questions (randomly generated)</p> <p><b>Understanding Fractions 2008</b></p> <p>Section 1: The Meaning of Fractions</p> <p>Introduction.. Think, Write, Say</p> <p>Squares</p> <p>Balls</p> <p>Part of a Whole</p> <p>One Half</p> <p>One Third</p> <p>One Quarter</p> <p>Parts of a Whole</p> <p>Three Eighths</p> <p>Write the Fraction</p> <p>Question 1</p> <p>Question 2</p> <p>Question 3</p> <p>Question 4</p>
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		<p><i>N5d. Represent fractions (halves, thirds, fourths, sixths and eighths), using words, numerals and physical models. For example: <b>d. Compare and order physical models of halves, thirds and fourths in relation to 0 and 1.</b></i></p> <p><b>Understanding Numeration: Comparing &amp; Ordering</b>  Skill 7: Compare Fractions  Level D 1) Compare Fractions  Do Skill Test - 5 questions (randomly generated)</p> <p><b>Understanding Fractions 2008</b>  Section 1: The Meaning of Fractions  Fraction Strips  Concept 1  Concept 2  Fractions on a Number Line  Halves  Thirds  Quarters  Summary</p> <p><i>G5. Create and identify two-dimensional figures with line symmetry; e.g., what letter shapes, logos, polygons are symmetrical?</i></p> <p><b>Understanding Graphing 2008</b>  Section 4: Transformations  Lines of Symmetry  An Introduction  Example 1  Example 2  Example 3  Example 4  Symmetry Match  Puzzle -1 (randomly generated)</p>
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			<p><i>Note <b>Week 3 Focus:</b> Explicit Teaching of 2 Digit Subtraction</i></p> <p><b>Understanding Numeration: Operations</b>  Skill 20: Fact Families... Add and Subtract  Level C 1) Check Subtraction by Addition  Do Skill Test - 5 questions (randomly generated)  Skill 21: Subtract 2 Digit Numbers... Concretely  Level C 1) Subtraction Without Regrouping  2) Subtraction With Regrouping  Do Skill Test - 5 questions (randomly generated)  Skill 22: Subtract 2 Digit Numbers... Abstractly  Level C 1) Subtraction Without Regrouping  2) Subtraction With Regrouping  Do Skill Test - 5 questions (randomly generated)</p>
<b>Week 4</b>	<p>Focus: 2 Digit Subtraction and Making Change</p> <p>Day 1 SM: 2 digit subtraction practice pages</p> <p>Day 2 SM: Choose a strategy (2 pages)</p> <p>Day 3 SM: Games- How Close to 0 or Capture 5  TM: Capture 5 directions</p> <p>Day 4 SM: Making Change #'s 1,2,3,4</p> <p>Day 5 SM: Making Change #'s 8, 9  TM: Extra practice pages (Making Change)  TM: Making Change Game directions  SM: Cut out coin value cards for game</p> <p>POW Money and Change</p>	G 5	<p><i>G5. Create and identify two-dimensional figures with line symmetry; e.g., what letter shapes, logos, polygons are symmetrical?</i></p> <p><b>Understanding Graphing 2008</b>  Section 4: Transformations  Lines of Symmetry  An Introduction  Example 1  Example 2  Example 3  Example 4  Symmetry Match  Puzzle -1 (randomly generated)</p>



			<p><i>Note <b>Week 5 Focus:</b> 2 Digit Subtraction and Making Change</i></p> <p><b>Understanding Numeration: Operations</b>  Skill 21: Subtract 2 Digit Numbers... Concretely  Level C 1) Subtraction Without Regrouping  2) Subtraction With Regrouping  Do Skill Test - 5 questions (randomly generated)  Skill 22: Subtract 2 Digit Numbers... Abstractly  Level C 1) Subtraction Without Regrouping  2) Subtraction With Regrouping  Do Skill Test - 5 questions (randomly generated)</p> <p><b>Understanding Numeration: Problem Solving</b>  Skill 4: Make a Table  Level A,B,C,D 2) Muffins</p>
<b>Week 5</b>	<p>Focus: Equivalence and Story Problems</p> <p>Day 1-2 SM: Equivalence pract. pgs. A, 1B, 2B, 3B, 4B</p> <p>Day 3 TM: Putting Together, Taking Apart, INV. 3, SSN. 1 &amp; 2: Parts &amp; Wholes, pg. 74, and Prob. With a Missing Part pgs. 77.  Play Cover Up</p> <p>Day 4 SM: Story Problems F &amp; G</p> <p>Day 5 SM: Subtract and regroup if you need to  SM: Continue practice of 2 digit addition &amp; Subtraction  POW Pizza Fractions</p>	<p>N 12</p> <p>N6, 12</p>	<p><i>N12. Demonstrate multiple strategies for adding and subtracting 2- or 3-digit whole numbers, such as: <b>a. compatible numbers;</b></i></p> <p><b>Understanding Numeration: Operations</b>  Skill 13: Addition Strategies  Level A 1) Tens and Doubles #1  Do Skill Test - 5 questions (randomly generated)  Level B 1) Tens and Doubles #2  Do Skill Test - 5 questions (randomly generated)  Level C 1) Darts - Add 3 or 4 Numbers  Do Skill Test - 5 questions (randomly generated)</p> <p><i>N12. Demonstrate multiple strategies for adding and subtracting 2- or 3-digit whole numbers, such as: <b>b. compensatory numbers;</b></i></p> <p><b>Not yet correlated</b></p>



		<p><i>N12. Demonstrate multiple strategies for adding and subtracting 2- or 3-digit whole numbers, such as: c. informal use of commutative and associative properties of addition.</i></p> <p><b>Understanding Numeration: Operations</b>  Skill 12: Add 3 or 4 Numbers  Level A 1) Add 3 Numbers Vertically...#1  2) Add 3 Numbers Horizontally...#1  Level B 1) Add 3 Numbers Vertically...#2  2) Add 3 Numbers Horizontally...#2</p> <p><b>Understanding Whole Numbers and Integers 2008</b>  Section 9: Order of Operations  Order in Addition - Whole Numbers  Trial 1  Trial 2  Conclusion</p> <p><i>N6. Model, represent and explain subtraction as comparison, take-away and part-to-whole; e.g., solve missing addend problems by counting up or subtracting, such as "I had six baseball cards, my sister gave me more, and I now have ten. How many did she give me?" can be represented as <math>6 + ? = 10</math> or <math>10 - 6 = ?</math>.</i></p> <p><b>Understanding Numeration: Operations</b>  Skill 11: Demonstrate Addition Facts... Patterns  Level C 1) Decomposition Stack  Skill 18: Introduce Subtraction Concretely... "Take Away"  Level A 1) Introduction to Subtraction #1  2) Introduction to Subtraction #2  Do Skill Test - 5 questions (randomly generated)  Skill 19: Introduce Subtraction Concretely... # - # = #  Level A 1) Introduction to Subtraction #3  2) Introduction to Subtraction #4</p>
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			<p>3) Introduce Vertical Subtraction Do Skill Test - 10 questions (randomly generated)</p> <p>Level C 1) Subtraction Sentences Do Skill Test - 5 questions (randomly generated)</p> <p>Skill 20: Fact Families... Add and Subtract</p> <p>Level A 1) Doubles - Add and Subtract 2) Relate Addition and Subtraction 3) Fact Families #1 Do Skill Test - 10 questions (randomly generated)</p> <p>Level B 1) Doubles - Add and Subtract 2) Fact Families #2 Do Skill Test - 5 questions (randomly generated)</p> <p>Level C 1) Check Subtraction by Addition Do Skill Test - 5 questions (randomly generated)</p> <p><b>Understanding Numeration: Problem Solving</b> Skill 1: Draw a Picture Level A,B,C,D 1) Eating Apples</p> <p><i>Note Week 5 Focus: Equivalence and Story Problems</i></p> <p>Story Problems</p> <p><b>Understanding Numeration: Problem Solving</b> Skill 1: Draw a Picture Level A,B,C,D 1) Eating Apples Skill 2: Find a Pattern Level A,B,C,D 2) Toy Animals Skill 3: Number Sentence Level A,B,C,D 1) Oranges 2) Bill's Ball Skill 4: Make a Table Level A,B,C,D 2) Muffins Skill 5: Make a Graph</p>
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		<p>Level A,B,C,D 1) Classroom Shoes Skill 6: Guess and Check Level A,B,C,D 2) The Gravy Spill Skill 7: Birthday Party Level A,B,C,D 1) Birthday Party</p> <p>Day 5 SM: Subtract and regroup if you need to SM: Continue practice of 2 digit addition &amp; Subtraction</p> <p><b>Understanding Numeration: Operations</b> Skill 14: Add 2 Digit Numbers... Concretely Level C 1) Addition Without Regrouping 2) Addition With Regrouping Do Skill Test - 5 questions (randomly generated) Skill 15: Add 2 Digit Numbers... Abstractly Level C 1) Addition Without Regrouping 2) Addition With Regrouping #1 3) Addition With Regrouping #2 Do Skill Test - 10 questions (randomly generated)</p> <p><b>Understanding Numeration: Operations</b> Skill 20: Fact Families... Add and Subtract Level C 1) Check Subtraction by Addition Do Skill Test - 5 questions (randomly generated) Skill 21: Subtract 2 Digit Numbers... Concretely Level C 1) Subtraction Without Regrouping 2) Subtraction With Regrouping Do Skill Test - 5 questions (randomly generated) Skill 22: Subtract 2 Digit Numbers... Abstractly Level C 1) Subtraction Without Regrouping 2) Subtraction With Regrouping Do Skill Test - 5 questions (randomly generated)</p>
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<p><b>Week 6</b></p>	<p>Focus: Geometry</p> <p>Day 1 TM: Guess My Rule INV. 2 SSN. 1</p> <p>Day 2 SM: Identify 3-d Shapes- Identify the faces of 3-D shapes through their faces, edges and vertices practice pgs.8.1-8.4</p> <p>Day 3 SM: Indentify 3 D shapes reteach pgs. 8.1- 8.4</p> <p>Day 4 SM: Introduce the term Congruent and have students identify Congruent Figures 3 pgs.</p> <p>Day 5 SM: Same Shape and Same Size and Congruent Shapes</p> <p>POW: Shapes # 6 Direct teaching</p> <p>Cube, cylinder, prism, sphere, cone Congruent</p>	<p>G 3, 4 N 7</p>	<p><i>G3. Recognize two-dimensional shapes and three-dimensional objects from different positions.</i></p> <p><b>Understanding Numeration: Counting</b> Skill 6: Recognize and Count Solids Level B 1) Counting Solids #1 Do Skill Test - 5 questions (randomly generated) Level C 1) Counting Solids #2 Do Skill Test - 5 questions (randomly generated) Skill 15: Recognize and Count two-Dimensional Figures Level B 1) Counting 2-D Figures #1 Do Skill Test - 5 questions (randomly generated) Level C 1) Counting 2-D Figures #2 Do Skill Test - 5 questions (randomly generated)</p> <p><b>Understanding Measurement and Geometry 2008</b> Section 2: Perimeter and Area of Polygons Polygons... What are They? Concept A Triangle is A Quadrilateral is A Pentagon is A Hexagon is An Octagon is</p> <p><b>Understanding Measurement and Geometry 2008</b> Section 4: Solids.. Volume and Surface Area Classifying Solids Recall Polygons</p>
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		<p><i>G4. Identify and determine whether two-dimensional shapes are congruent (same shape and size) or similar (same shape different size) by copying or using superposition (lay one thing on top of another).</i></p> <p><b>Understanding Graphing 2008</b>  Section 4: Transformations  What is a Transformation?  Introduction to Common Transformations</p> <p><i>N7. Model, represent and explain multiplication as repeated addition, rectangular arrays and skip counting.</i></p> <p><b>Understanding Numeration: Counting</b>  Skill 8: Skip Counting and Patterns  Level C 1) Patterns in Rows  2) Skip Counting to 100  3) Skip Count by 2s to 100  4) Next by 2s  5) Next by 5s  Do Skill Test - 10 questions (randomly generated)</p> <p><b>Understanding Numeration: Operations</b>  Skill 25: Introduce Multiplication Concretely  Level C 1) Grouping Eggs in Bowls  2) Grouping Chairs in Rows  3) Eggs in Bowls... Introduce <math>\times</math>  4) Chairs in Rows... Introduce <math>\times</math>  5) Multiplication - Repeated Addition  Do Skill Test - 10 questions (randomly generated)</p> <p>Skill 26: Introduce Multiplication Sentences  Level C 1) Multiplication Sentences #1  2) Multiplication Sentences #2  Do Skill Test - 5 questions (randomly generated)</p>
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			<p>Skill 27: Introduce Multiplication Facts... 2, 3, 4, 5  Level C 1) Multiplication: Groups of 2  2) Multiplication: Groups of 3  3) Multiplication: Groups of 4  4) Multiplication: Groups of 5</p> <p>Skill 28: Introduce Multiplication by 1 and by 0  Level C 1) Multiplication: Groups of 1  2) Multiplication: Groups of 0</p> <p>Skill 29: Introduce Multiplication Facts... 6, 7, 8, 9  Level D 1) Multiplication: Groups of 6  2) Multiplication: Groups of 7  3) Multiplication: Groups of 8  4) Multiplication: Groups of 9</p> <p>Skill 31: Introduction to Arrays  Level C 1) Introduction to Arrays  2) Build Arrays  3) Introduction to Arrays with Multiplication  4) Build Arrays with Multiplication</p>
<b>Week 7</b>	<p>Focus: Fractions</p> <p>Day 1 TM: Half-and-Half Rectangles: Shapes, Halves and Symmetry: INV 3, SSN 1, 2 pg. 74</p> <p>Day 2 TM: Cutting Congruent Halves: INV 3, SSN 3  Cut shape halves pages, and color &amp; cut</p> <p>Day 3 TM: Fourths and Thirds of Rectangles: Shapes,  Halves and Symmetry: INV 3, SSN 7, 8  2pgs.</p> <p>Day 4 -5 SM: Model Bean Activity: Put three or four 2 colored sided beans in a small cup. Spill them out and write a fraction for the number of</p>	N5	<p><i>N5a. Represent fractions (halves, thirds, fourths, sixths and eighths), using words, numerals and physical models. For example: a. Recognize that a fractional part can mean different amounts depending on the original quantity.</i></p> <p><b>Understanding Numeration: Counting</b></p> <p>Skill 9: Introduce Fractions... Equal Parts  Level B 1) Two Equal Parts  2) Three Equal Parts  3) Four Equal Parts  Do Skill Test - 10 questions (randomly generated)</p>



	<p>colored sides that show. Do Fractions of a Group pg. then play Spill Counters Game          POW: Pencil Fractions 3rd QT: # 7</p> <p>Shape division          Shape combination</p>		<p><b>Understanding Fractions 2008</b>          Section 1: The Meaning of Fractions          Introduction.. Think, Write, Say              Circle              Squares              Examples</p> <p>Parts of a Fraction          Part of a Whole              One Half              One Third              One Quarter</p> <p>Parts of a Whole              Three Eights</p> <p>Write the Fraction              Question 1              Question 2              Question 3              Question 4</p> <p>Fraction of a Gas Tank          Fractions on a Number Line              Halves              Thirds              Quarters              Summary</p> <p>Pattern Blocks              Example 1              Example 2              Example 3              Example 4</p> <p>Fraction of a Pie              Example 1              Example 2</p> <p>Fractions of a Shape              Fraction of a Square- One Half              Fraction of a Square- One Quarter</p>
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			<p>Fraction of a Square- One Eighth          Fraction of a Square- Three Eighths          Fraction of a Hexagon- One Sixth          Fraction of a Hexagon- One Third          Fraction of a Hexagon- One Half          Fraction of a Hexagon- Two Thirds          Fraction of a Hexagon- Five Sixths          Fraction of a Octagon- One Eighth          Fraction of a Octagon- One Quarter          Fraction of a Octagon- One Half          Fraction of a Octagon- Five Eighths          Fraction of a Octagon- Three Fourths</p> <p>N5b. Represent fractions (halves, thirds, fourths, sixths and eighths), using words, numerals and physical models. For example: <b>b. Recognize that a fractional part of a rectangle does not have to be shaded with contiguous parts.</b></p> <p><b><i>Not yet correlated</i></b></p> <p>N5c. Represent fractions (halves, thirds, fourths, sixths and eighths), using words, numerals and physical models. For example: <b>c. Identify and illustrate parts of a whole and parts of sets of objects.</b></p> <p><b>Understanding Numeration: Counting</b>          Skill 10: Introduce Fractions... Part of a Whole          Level B 1) One Half          2) One Third          3) One Quarter          Do Skill Test - 10 questions (randomly generated)</p> <p>Skill 11: Introduce Common Fractions... Parts of a Whole          Level B 1) One Half of a Shape          2) Two Thirds of a Shape</p>
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			<p>3) Three Quarters of a Shape  4) Cut in Half  5) Fifths to Tenths #1  Do Skill Test - 10 questions (randomly generated)</p> <p>Level C 1) Fifths to Tenths #2  2) Write the Fraction #1  3) Write the Fraction #2  Do Skill Test - 5 questions (randomly generated)</p> <p>Skill 12: Introduce Fraction of a Set  Level C 1) Fraction of a set  Do Skill Test - 10 questions (randomly generated)</p> <p><b>Understanding Fractions 2008</b>  Section 1: The Meaning of Fractions  Introduction.. Think, Write, Say  Squares  Balls</p> <p>Part of a Whole  One Half  One Third  One Quarter</p> <p>Parts of a Whole  Three Eights</p> <p>Write the Fraction  Question 1  Question 2  Question 3  Question 4</p>
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			<p><i>N5d. Represent fractions (halves, thirds, fourths, sixths and eighths), using words, numerals and physical models. For example: <b>d. Compare and order physical models of halves, thirds and fourths in relation to 0 and 1.</b></i></p> <p><b>Understanding Numeration: Comparing &amp; Ordering</b>  Skill 7: Compare Fractions  Level D 1) Compare Fractions  Do Skill Test - 5 questions (randomly generated)</p> <p><b>Understanding Fractions 2008</b>  Section 1: The Meaning of Fractions  Fraction Strips  Concept 1  Concept 2  Fractions on a Number Line  Halves  Thirds  Quarters  Summary</p>
<b>Week 8</b>	<p>Focus: Fractions and Symmetry  Can start review work this week too. See week 9.</p> <p>Day 1 TM; Use colored tiles to make fractions for sixths, and eighths. Complete page R10-11  Day 2 SM: Circle the Fractions- 8 pages  Day 3 SM: Do Working with Fractions pg. [write them] and next 3 pages  TM: More fraction pages can be copied as needed</p> <p>Day 4 TM: Symmetry in the World: Shapes, Halves</p>	<p>N5</p> <p>G5</p>	<p><i>N5a. Represent fractions (halves, thirds, fourths, sixths and eighths), using words, numerals and physical models. For example: <b>a. Recognize that a fractional part can mean different amounts depending on the original quantity.</b></i></p> <p><b>Understanding Numeration: Counting</b>  Skill 9: Introduce Fractions... Equal Parts  Level B 1) Two Equal Parts  2) Three Equal Parts  3) Four Equal Parts  Do Skill Test - 10 questions (randomly generated)</p>



	<p>and Symmetry: INV 4, SSN 1&amp; 2 Page 96  Day 5 TM: Patchwork Quilt game or Hershey Fract.  POW: Shapes  Symmetry</p>		<p><b>Understanding Fractions 2008</b>  Section 1: The Meaning of Fractions  Introduction.. Think, Write, Say  Circle  Squares  Examples  Parts of a Fraction  Part of a Whole  One Half  One Third  One Quarter  Parts of a Whole  Three Eights  Write the Fraction  Question 1  Question 2  Question 3  Question 4  Fraction of a Gas Tank  Fractions on a Number Line  Halves  Thirds  Quarters  Summary  Pattern Blocks  Example 1  Example 2  Example 3  Example 4  Fraction of a Pie  Example 1  Example 2  Fractions of a Shape  Fraction of a Square- One Half  Fraction of a Square- One Quarter</p>
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		<p>Fraction of a Square- One Eighth          Fraction of a Square- Three Eighths          Fraction of a Hexagon- One Sixth          Fraction of a Hexagon- One Third          Fraction of a Hexagon- One Half          Fraction of a Hexagon- Two Thirds          Fraction of a Hexagon- Five Sixths          Fraction of a Octagon- One Eighth          Fraction of a Octagon- One Quarter          Fraction of a Octagon- One Half          Fraction of a Octagon- Five Eighths          Fraction of a Octagon- Three Fourths</p> <p>N5b. Represent fractions (halves, thirds, fourths, sixths and eighths), using words, numerals and physical models. For example: <b>b. Recognize that a fractional part of a rectangle does not have to be shaded with contiguous parts.</b></p> <p><b><i>Not yet correlated</i></b></p> <p>N5c. Represent fractions (halves, thirds, fourths, sixths and eighths), using words, numerals and physical models. For example: <b>c. Identify and illustrate parts of a whole and parts of sets of objects.</b></p> <p><b>Understanding Numeration: Counting</b>          Skill 10: Introduce Fractions... Part of a Whole          Level B 1) One Half          2) One Third          3) One Quarter          Do Skill Test - 10 questions (randomly generated)</p> <p>Skill 11: Introduce Common Fractions... Parts of a Whole          Level B 1) One Half of a Shape          2) Two Thirds of a Shape</p>
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			<p>3) Three Quarters of a Shape  4) Cut in Half  5) Fifths to Tenths #1  Do Skill Test - 10 questions (randomly generated)</p> <p>Level C 1) Fifths to Tenths #2  2) Write the Fraction #1  3) Write the Fraction #2  Do Skill Test - 5 questions (randomly generated)</p> <p>Skill 12: Introduce Fraction of a Set  Level C 1) Fraction of a set  Do Skill Test - 10 questions (randomly generated)</p> <p><b>Understanding Fractions 2008</b>  Section 1: The Meaning of Fractions  Introduction.. Think, Write, Say  Squares  Balls</p> <p>Part of a Whole  One Half  One Third  One Quarter</p> <p>Parts of a Whole  Three Eights</p> <p>Write the Fraction  Question 1  Question 2  Question 3  Question 4</p>
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		<p><i>N5d. Represent fractions (halves, thirds, fourths, sixths and eighths), using words, numerals and physical models. For example: <b>d. Compare and order physical models of halves, thirds and fourths in relation to 0 and 1.</b></i></p> <p><b>Understanding Numeration: Comparing &amp; Ordering</b>  Skill 7: Compare Fractions  Level D 1) Compare Fractions  Do Skill Test - 5 questions (randomly generated)</p> <p><b>Understanding Fractions 2008</b>  Section 1: The Meaning of Fractions  Fraction Strips  Concept 1  Concept 2  Fractions on a Number Line  Halves  Thirds  Quarters  Summary</p> <p><i>G5. Create and identify two-dimensional figures with line symmetry; e.g., what letter shapes, logos, polygons are symmetrical?</i></p> <p><b>Understanding Graphing 2008</b>  Section 4: Transformations  Lines of Symmetry  An Introduction  Example 1  Example 2  Example 3  Example 4  Symmetry Match  Puzzle -1 (randomly generated)</p>
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<p><b>Weeks 9 &amp; 10</b></p>	<p>Focus: Test review Day 1 SM: Symmetry review 2 pgs.</p> <p>Day 2 SM: Review Time &amp; Making Change pract. pgs.</p> <p>Day 3 SM: Review Dividing Quantities</p> <p>Day 4 SM: Take practice test</p> <p>Day 5 POW: Congruent Shapes 3rd QT: 4</p> <p>TM: Administer 3rd Quarter District Assessment</p> <p>These skills are on the 3rd Qtr. math test: Equivalence, making change, 2 digit add. w/regrouping, place value blocks, fair share/division, fractions, shapes, congruency.</p> <p>Focus on your class's needs! *TM has extra practice pages for review.</p>	<p>G5</p>	<p><i>G5. Create and identify two-dimensional figures with line symmetry; e.g., what letter shapes, logos, polygons are symmetrical?</i></p> <p><b>Understanding Graphing 2008</b> Section 4: Transformations Lines of Symmetry An Introduction</p> <p style="padding-left: 100px;">Example 1 Example 2 Example 3 Example 4</p> <p style="padding-left: 50px;">Symmetry Match Puzzle -1 (randomly generated)</p>
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