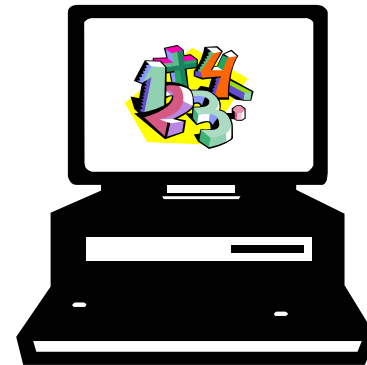


*Bellevue Public Schools*  
*Math & Technology Integration Guide*



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*Fifth Grade*

## Rationale

This guide was created as an aid for teachers. It is hoped by the Bellevue Public Schools' Technology Team that teachers will use this as a guide when working with their students in the building computer lab and in the classroom. The team understands that busy teachers find it difficult to find time to work with programs. This guide is only a beginning. Teachers may find more activities that integrate with given objectives. It is our hope that these activities will be forwarded to the team for inclusion in this guide. We will put the guide on the district Curriculum, Instruction, and Assessment website. Upgrades will be posted on the site and these can be printed.

## Information About Program Use

### Math Trek 123

Math Trek 123 is a primary program that can be used by students with or without teachers creating a class and adding student names. The program talks to students. To view directions for a given activity, students click on the mouse head. It shows them how to play the activity.

### Math Trek 456

Math Trek 456 can be used by students with or without teachers adding their names to the program management system. Typing student names into the management system is useful for two reasons. The first reason is so the teacher can obtain a record of student achievement using the program. The second reason is that it allows teachers to hold students accountable for the time spent on the computer. A guide for setting-up the record-keeping component can be found at the back of this guide. Students can select **Guest** to use the program if their names have not been added to the management system.

### Cornerstone Math and Language Arts

Cornerstone Level A (for 3<sup>rd</sup> and 4<sup>th</sup> grades) can **only** be used after creating a class and student names have been added to the student management system. The directions for setting up a class can be found at the back of this guide.

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**MT 123** = Math Trek 123 (Students can enter as Guests or teacher can create a class and add students)

**CS(A)** = Cornerstone Level A (Class must be created and students entered)

**CS(B)** = Cornerstone Level B (Class must be created and students entered)

**Chapter 1 Place Value**

<b>Chapter-Lesson</b>	<b>TE Pg. #</b>	<b>Lesson Objective</b>	<b>Computer Program</b>	<b>Essential Objective</b>
1-2	4-5	Place Value to Billions	<p><b>CS (A)</b> Understanding Numbers – Lesson 1 Place Value (There are a few numbers with decimals.)</p> <p><b>CS (B)</b> Understanding Numbers – Lesson 1 Place Value</p> <p><b>MT</b> – Number Sense and Numeration – Tutorial – Place Value –(do all these two tutorials) Intro. Place Value and Place Value and Large Numbers</p> <p><b>MT</b> Number Sense and Numeration – Practice # 9, 10, 23, 37</p>	
1-3	6-9	Comparing and Ordering Whole Numbers	<p><b>CS (A)</b> Understanding Numbers – Lesson 1 Place Value (There are a few numbers with decimals.)</p> <p><b>CS (B)</b> Understanding Numbers – Lesson 3 Comparing and Ordering Numbers</p> <p><b>MT</b> – Number Sense and Numeration – Tutorial – Place Value –(do all these two tutorials) Intro. Place Value and Place Value and Large Numbers</p> <p><b>MT</b> Number Sense and Numeration – Tutorial – Order and Comparison – Ordering Numbers (includes decimal numbers {tenths, hundredths})</p> <p><b>MT</b> Number Sense and Numeration – Tutorial – Counting – Introduction to</p>	

			Counting, Counting Larger Numbers  <b>MT</b> Number Sense and Numeration – Activities – Listen, Write, Check	
1-4	10-11	Rounding Whole Numbers	CS (A) Using Addition and Subtraction – Lesson 4 Estimate by Rounding  <b>CS (B)</b> Using Whole Numbers – Lesson 2 Estimation by Rounding  <b>MT</b> Number Sense and Numeration – Tutorial – Rounding –Introducing Rounding, Rounding Larger Numbers  <b>MT</b> Number Sense and Numeration – Practice #s 44, 45	
1-5	12-13	Developing Skills for Problem Solving		
1-6	16-19	Understanding Decimal Place Value	<b>MT</b> Number Sense and Numeration – Tutorial – Place Value – Place Value and Decimals  <b>MT</b> Number Sense and Numeration – Tutorial – Counting – Counting Decimals	
1-7	20-21	Place Value to Thousandths	<b>CS (B)</b> Understanding Numbers – Lesson 1 Place Value  <b>MT</b> – Number Sense and Numeration – Tutorial – Place Value –(do all these two tutorials) Intro. Place Value and Place Value and Large Numbers  <b>MT</b> Number Sense and Numeration – Activities – Listen, Write, Check  <b>MT</b> Number Sense and Numeration –	

			Practice #s 14, 24,	
1-8	22-25	Comparing and Ordering Decimals	<p><b>MT</b> Number Sense and Numeration – Tutorial – Order and Comparison – Ordering Numbers (includes decimal numbers {tenths, hundredths})</p> <p><b>MT</b> Number Sense and Numeration – Tutorial – Counting – counting Decimals</p> <p><b>MT</b> Number Sense and Numeration – Activities – World of Numbers (Comparing and ordering numbers .001-1,000,000)</p> <p><b>MT</b> Number Sense and Numeration – Practice # 11, 15, 25, 39, 49, 50,51, 52, 53, 54</p>	
1-9	26-27	Problem-Solving Strategy		
1-10	28-29	Rounding Decimals	<p><b>MT</b> Number Sense and Numeration – Tutorial – Rounding – Rounding Decimals</p> <p><b>MT</b> Number Sense and Numeration – Practice - #s 46, 47</p>	
1-11	30-31a	Problem-Solving Application		
1 Test Prep	34-39	Place Value	<p><b>CS (A)</b> Understanding Numbers – Lesson 1 Place Value (There are a few numbers with decimals.)</p> <p><b>CS (B)</b> Understanding Numbers – Lesson 1 Place Value</p> <p><b>MT</b> – Number Sense and Numeration – Tutorial – Place Value –(do all these</p>	

			<p>two tutorials) Intro. Place Value and Place Value and Large Numbers</p> <p><b>MT</b> Number Sense and Numeration – Activities – Listen, Write, Check</p> <p><b>MT</b> Number Sense and Numeration – Practice #s 9, 10, 11, 15, 23, 24, 25, 31, 37, 38, 39, 42, 44, 45, 46, 47, 48-54</p>	
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**Chapter 2 Adding and Subtracting Whole Numbers and Decimals**

<b>Chapter-Lesson</b>	<b>TE Pg. #</b>	<b>Lesson Objective</b>	<b>Computer Program</b>	<b>Essential Objective</b>
2-1	42-43	Working with Addition Properties	<b>MT</b> Number Sense and Numeration– Tutorial – Basic Operations – Addition  <b>CS (A)</b> Using Addition and Subtraction – 1 Basic Addition Facts (skill and drill)	
2-2	44-45	Mental Math: Using Compatible Numbers and Compensation		
2-3	46-47	Relating Addition and Subtraction	<b>CS (A)</b> Using Addition and Subtraction – Lesson 3 Open Sentences	
2-4	48-49	Developing Skills for Problem Solving		
2-5	50-53	Using Rounding to Estimate	<b>MT</b> Number Sense and Numeration – Tutorial – Rounding – (all of the 4 lessons help students with rounding: this tutorial series was put on the chapter 1 list, too)  <b>MT</b> Number Sense and Numeration – Practice #s 42, 44, 45, 46, 47	
2-6	54-55	Using Front-End Estimation	<b>CS (B)</b> Using Whole Numbers – Lesson 1 Front-End Estimation	
2-7	56-57	Problem Solving Strategy		
2-8	60-63	Adding and Subtracting Greater Whole Numbers	<b>CS (A)</b> Using Addition and Subtraction –Lesson 5 and 6 Addition and Subtraction  <b>CS (B)</b> Using Whole Numbers – Lessons 3 & 4 Addition and Subtraction  <b>MT</b> – Number Sense and Numeration – Activities – Off to the Races  <b>MT</b> Number Sense and Numeration –	

			Practice #s 2, 3, 4, 17, 18, 19, 32, 33,	
2-9	64-65b	Explore: Adding and subtracting Decimals	<p><b>CS (A)</b> Using Decimals and Fractions – Lessons 3 &amp; 4 Addition and subtraction of Decimals</p> <p><b>CS (B)</b> Using Decimals – Lessons 1 &amp; 2 Addition and Subtraction of Decimals</p>	
2-10	66-67	Adding Decimals	<p><b>CS (A)</b> Using Decimals and Fractions – Lessons 3 Addition of Decimals</p> <p><b>CS (B)</b> Using Decimals – Lessons 1 Addition of Decimals</p> <p><b>Math Trek</b> – Number Sense and Numeration – Activities – Preservation Path</p>	
2-11	68-69	Subtracting Decimals	<p><b>CS (A)</b> Using Decimals and Fractions – Lesson 4 Subtraction of Decimals</p> <p><b>CS (B)</b> Using Decimals – Lesson 2 Subtraction of Decimals</p> <p><b>Math Trek</b> – Number Sense and Numeration – Activities – Preservation Path</p>	
2-12	70-71	Adding and Subtracting Decimals	<p><b>CS (A)</b> Using Decimals and Fractions – Lessons 3 &amp; 4 Addition and subtraction of Decimals</p> <p><b>CS (B)</b> Using Decimals – Lessons 1 &amp; 2 Addition and Subtraction of Decimals</p> <p><b>Math Trek</b> – Number Sense and Numeration – Activities – Preservation Path</p>	
2-13	72-73	Choosing a Computation Method		

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2-14	74-75a	Problem Solving Application		
2 Test Prep	78-83	Adding and Subtracting Whole Numbers and Decimals	<b>Math Trek</b> – Number Sense and Numeration – Activities – Preservation Path	

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**Chapter 3 Using Data and Statistics**

<b>Chapter-Lesson</b>	<b>TE Pg. #</b>	<b>Lesson Objective</b>	<b>Computer Program</b>	<b>Essential Objective</b>
3-1	86-87	Explore: Collecting Data	<b>CS (A)</b> Working with Data – Lesson 2  <b>CS (B)</b> Working with Data – Lesson 1  <b>MT</b> Data Management and Probability – Tutorial – Data Management  <b>MT</b> Data Management and Probability – Practice # 1, 2, 3, 4, 5	EO 1
3-2	88-91	Double Bar Graphs	<b>CS (A)</b> Working with Data – Lesson 2  <b>CS (B)</b> Working with Data – Lesson 1  <b>MT</b> Data Management and Probability – Tutorial – Data Management	EO 1
3-3	92-95	Coordinate Graphing	<b>CS (A)</b> Working with Data –Lesson 3  <b>CS (B)</b> Working with Data –Lesson 2	EO1
3-4	96-97	Developing Skills for Problem Solving		
3-5	98-101	Reading Line Graphs	<b>CS (A)</b> Working with Data – Lesson 4  <b>CS (B)</b> Working with Data – Lesson 3	EO 1
3-6	102-103b	Explore: Making Line Graphs	<b>CS (A)</b> Working with Data – Lesson 4  <b>CS (B)</b> Working with Data – Lesson 3	
3-7	106-107	Problem Solving Strategy		
3-8	108-111	Graphs That Look Different	<b>CS (A)</b> Working with Data – lessons 1, 2, 4, & 5  <b>MT</b> Data Management and Probability – Activities - Coin Survey, Eye Color Survey, and Student Height	

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			Use Microsoft Excel to create a table and graph (Contact building Tech Trainer for help with lesson)  <b>MT</b> Data Management and Probability – Practice # 1, 2, 3, 4, 5	
3-9	112-113	Stem and Leaf Plots		
3-10	114-115	Range, Mode and Median		
3-11	116-117a	Problem Solving Application		
3 Test Prep	120-127	Using Data and Statistics	<b>CS (A)</b> Working with Data – Lessons 1, 2, 3, 4, 5  <b>CS (B)</b> Working with Data – Lessons 1, 2, 3, 4 and Pretest and Posttest on Working with Data  <b>MT</b> Data Management and Probability – Practice # 1, 2, 3, 4, 5	

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**Chapter 4 Multiplying Whole Numbers**

<b>Chapter-Lesson</b>	<b>TE Pg. #</b>	<b>Lesson Objective</b>	<b>Computer Program</b>	<b>Essential Objective</b>
4-1	130-131	Multiplication Properties		EO 2
4-2	132-133	Developing Skills for Problem Solving		
4-3	134-137	Mental Math: Multiplication Patterns Using 10, 100, 1,000		
4-4	138-139	Estimating Products	<b>CS (A)</b> Using Mult. & Div. – Lesson 4 Estimation by Rounding	EO 2
4-5	140-141	Multiplying by One Digit Numbers	<b>CS (A)</b> Using Mult. & Div. – Lesson 1 & 5  <b>MT</b> - Number Sense and Numeration – Tutorial –Basic Operations – Multiplication  <b>MT</b> Number Sense and Numeration – Practice #s 5, 6  Use Internet Math Activities (See district K-6 Web Activities site for many interactive drill and practice activities.	EO 2
4-6	142-143	Problem-Solving Strategy		
4-7	146-147b	Explore: Understanding Partial Products	<b>CS (B)</b> Using Whole Numbers – Lesson 5 Multiplication	
4-8	148-151	Multiplying by Two-Digit Numbers	<b>CS (A)</b> Using Mult. & Div – Lesson 7 Two-Digit Multipliers  <b>CS (B)</b> Using Whole numbers – Lesson 5 Multiplication  <b>MT</b> Number Sense and Numeration – Tutorial - Basic Operations –	EO 2

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			Multiplication <b>MT</b> Number Sense and Numeration – Practice #s 20 & 34	
4-9	152-153	More Multiplying by Two-Digit Numbers	<b>CS (A)</b> Using Mult. & Div – Lesson 7 Two-Digit Multipliers  <b>CS (B)</b> Using Whole numbers – Lesson 5 Multiplication  <b>MT</b> Number Sense and Numeration – Tutorial - Basic Operations – Multiplication  <b>MT</b> Number Sense and Numeration – Practice #s 20 & 34	EO 2
4-10	154-155	Multiplying Greater Numbers		
4-11	156-157	Problem-Solving Application		
4 Test Prep	160-165	Multiplying Whole Numbers	<b>CS (A)</b> Using Mult. & Div – Lesson 7 Two-Digit Multipliers  <b>CS (B)</b> Using Whole numbers – Lesson 5 Multiplication  <b>MT</b> Number Sense and Numeration – Practice #s 20 & 34	EO 2

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**Chapter 5 Dividing by One-Digit Divisors**

<b>Chapter-Lesson</b>	<b>TE Pg. #</b>	<b>Lesson Objective</b>	<b>Computer Program</b>	<b>Essential Objective</b>
5-1	168-169	Relating Multiplication and Division	<b>MT</b> Number Sense and Numeration – Practice # 16	
5-2	170-171	Order of Operations	<b>MT</b> Number Sense and Numeration – Tutorial – Basic Operations – Order of Operations	
5-3	172-173	Mental Math: Patterns in Division	<b>MT</b> Patterning and Algebra – Practice # 1-8	
5-4	174-175	Estimating Quotients of Whole Numbers	<b>CS (B)</b> Using Whole Numbers – Lesson 6 Compatible Numbers	
5-5	176-179	Divisibility Rules		
5-6	182-183	Developing Skills for Problem Solving		
5-7	184-187	Dividing by One Digit Divisors	<b>CS (A)</b> Using Multiplication and Division – Lesson 6 One-Digit Divisors  <b>MT</b> Number Sense and Numeration – Tutorial – Basic Operations – Division  <b>MT</b> Number Sense and Numeration – Practice #s 7, 8, 21, 22	
5-8	188-189	Short Division		
5-9	190-191	Zeros on the Quotient		
5-10	193-193`	Problem Solving Strategy		
5-11	194-195b	Explore: Finding Averages		EO 3
5-12	196-197	Dividing with Greater Dividends		
5-13	198-199a	Problem Solving Application		

5 Test Prep	202-207	Dividing by One-Digit Divisors	MT Number Sense and Numeration – Practice #s 7, 8, 21, 22	

**Note: These are many skill and drill interactive division lessons on the Internet. Use the K-6 Web Activities website. If you find more that you would like to have added to the website, contact a Tech Trainer with the site address so other classes can also use your site. [teachbaj@hotmail.com](mailto:teachbaj@hotmail.com) or [iamtimothykruger@hotmail.com](mailto:iamtimothykruger@hotmail.com)**

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**Chapter 6 Dividing by Two-Digit Divisors**

<b>Chapter-Lesson</b>	<b>TE Pg. #</b>	<b>Lesson Objective</b>	<b>Computer Program</b>	<b>Essential Objective</b>
6-1	210-211	Mental Math: Patterns in Division		
6-2	212-213	Estimating Quotients	<p><b>CS (A)</b> Using Multiplication and Division – Lesson 4 Estimation by Rounding</p> <p><b>CS (B)</b> Using Whole Numbers – Lesson 2</p>	
6-3	214-215	Developing Skills for Problem Solving		
6-4	216-219	Dividing by Two-Digit Divisors	<p><b>CS (A)</b> Using Multiplication and Division – Lesson 8 Two Digit Divisors.</p> <p><b>CS (B)</b> Using Whole numbers – Lesson 7 Division</p> <p><b>MT</b> Number Sense and Numeration – Tutorial-Basic Operations – Divisions</p> <p><b>MT</b> Number Sense and Numeration – Practice #s 35 &amp; 36</p>	EO 4
6-5	222-228	Explore: Two-Digit Quotients		
6-6	224-225	Two-Digit Quotients	<p><b>CS (A)</b> Using Multiplication and Division – Lesson 8 Two Digit Divisors.</p> <p><b>CS (B)</b> Using Whole numbers – Lesson 7 Division</p> <p><b>MT</b> Number Sense and Numeration –</p>	

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			Tutorial-Basic Operations – Divisions  <b>MT</b> Number Sense and Numeration – Practice #s 35 & 36	
6-7	226-227	Problem-Solving Strategy		
6-8	228-231	Dividing Greater Numbers	<b>CS (A)</b> Using Multiplication and Division – Lesson 8 Two Digit Divisors.  <b>CS (B)</b> Using Whole numbers – Lesson 7 Division  <b>MT</b> Number Sense and Numeration – Tutorial-Basic Operations – Divisions  <b>MT</b> Number Sense and Numeration – Practice #s 35 & 36	EO 4
6-9	232-233a	Problem-Solving Application		
6 Test Prep	236-243	Dividing by Two-Digit Divisors	<b>CS (A)</b> Using Multiplication and Division – Lesson 8 Two Digit Divisors.  <b>CS (B)</b> Using Whole numbers – Lesson 7 Division  <b>MT</b> Number Sense and Numeration – Tutorial-Basic Operations – Divisions  <b>MT</b> Number Sense and Numeration – Practice #s 35 & 36	EO 4

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**Chapter 7 Geometry**

<b>Chapter-Lesson</b>	<b>TE Pg. #</b>	<b>Lesson Objective</b>	<b>Computer Program</b>	<b>Essential Objective</b>
7-1	246-249	Geometric Ideas	MT Geometry and Spatial Sense – Tutorial – Geometric Figures Introducing Geometry  Internet K-6 Web Activities-5 <sup>th</sup> Grade – Math on the Web – Geometry Flash Cards	EO 5
7-2	250-250b	Explore: Classifying	Alternative idea! Use Microsoft Paint to have students draw different lines and angles and label them. Ask a tech trainer to help with the lesson.	
7-3	252-255	Working With Angles		
7-4	256-257	Polygons	<b>MT</b> Geometry and Spatial Sense – Tutorial – Geometric Figures – Triangles & Quadrilaterals  <b>MT</b> Geometry and Spatial Sense – Activities – Polygon Match	
7-5	258-259	Developing Skills for Problem Solving		
7-6	260-263	Classifying Triangles	<b>MT</b> Geometry and Spatial Sense – Tutorial – Geometric Figures - Triangles	
7-7	264-265	Explore: The Sum of the Angles of a Triangle		
7-8	266-267	Classifying Quadrilaterals	<b>MT</b> Geometry and Spatial Sense – Tutorial – Geometric Figures – Quadrilateral  <b>MT</b> Geometry and Spatial Sense – Practice # 11, 12, 13, 14, 15	

7-9	270-271	Problem-Solving Strategy	<p><b>MT</b> Patterning and Algebra – Tutorial – Patterns and Number Patterns</p> <p><b>MT</b> Geometry and Spatial Sense – Activities – Cube Nets</p>	
7-10	272-275	Congruent Figures and Transformations	<p><b>MT</b> Geometry and Spatial Sense – Tutorial – Geometric Figures - Congruence</p> <p><b>MT</b> Geometry and Spatial Sense – Tutorial - Coordinate and Motion Geometry – Transformations</p> <p><b>MT</b> Geometry and Spatial Sense – Practice #s 1-5</p> <p>Consider using MS Paint (copy and paste) a figure to create tessellations. For a lesson demo, contact Tech Trainers.</p> <p><b>MT</b> Geometry and Spatial Sense – Activities - Pentomino Puzzle, Triangle Search</p>	
7-11	276-277	Looking at Similar Figures	<p><b>MT</b> Geometry and Spatial Sense – Tutorial – Geometric Figures – Congruence</p> <p><b>MT</b> Geometry and Spatial Sense – Practice – #s 1-5</p> <p><b>MT</b> Geometry and Spatial Sense – Activities – Triangle Search</p>	
7-12	278-279a	Problem-Solving Applications	<p>Symmetry:</p> <p><b>MT</b> Geometry and Spatial Sense – Tutorial - Congruence and Symmetry</p>	

			(Could also use the drawing functions of Microsoft PowerPoint, Word, or Paint. Check with Tech Trainers for ideas)	
7-13	280-281	Exploring: Circles	<b>MT</b> Geometry and Spatial Sense – Tutorial – Geometric Figures - Circles	
7-14	282-285	Solid Figures	<b>MT</b> Geometry and Spatial Sense – Geometric Figures – Geometric Solids  <b>MT</b> Geometry and Spatial Sense- Problems #s 4, 5, 10	
7 Test Prep	288-293	Geometry	<b>MT</b> Geometry and Spatial Sense – Problems 1-15	

**Note:** Using MS Paint or PowerPoint to draw and label geometric shapes would be fun for the students and help reinforce the concepts they must learn. PowerPoint has geometric shapes that can be combined to create interesting shapes and tessellations. Tech Trainers can do model lessons or share ideas with you

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**Chapter 8 Multiplying and Dividing Decimals**

<b>Chapter-Lesson</b>	<b>TE Pg. #</b>	<b>Lesson Objective</b>	<b>Computer Program</b>	<b>Essential Objective</b>
8-1	296-297	Multiplying Decimals by 10, 100, and 1000		
8-2	298-299	Multiplying Decimals by Whole Numbers	<b>CS (A)</b> Using Decimals and Fractions – Lesson 5 Multiplication of Decimals  <b>CS (B)</b> Using Decimals – Lesson 3 Multiplication of Decimals	
8-3	300-301	Estimating the Product of a Whole Number and a Decimal		
8-4	302-303	Developing Skills for Problem-Solving.		
8-5	304-305	Explore: Investigating Decimal Multiplication		
8-6	306-309	Multiplying Decimals	<b>CS (A)</b> Using Decimals and Fractions – Lesson 5 Multiplication of Decimals  <b>CS (B)</b> Using Decimals – Lesson 3 Multiplication of Decimals	
8-7	310-311	Multiplication With Zeros in the Product		
8-8	312-313	Problem-Solving Strategy		
8-9	316-317	Dividing Decimals by 10, 100 and 1,000		
8-10	318-319	Explore: Investigating Decimal Division		
8-11	320-321	Dividing Decimals	<b>CS (A)</b> Using Decimals and Fractions – Lesson 6 Divisions of Decimals  <b>CS (B)</b> Using Decimals – Divisions of Decimals  <b>MT</b> Patterning and Algebra – Tutorial - Number Patterns	

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8-12	322-323a	Problem-Solving Application		
8 Test Prep	326-331	Multiplying and Dividing Decimals	<p><b>CS (B)</b> Using Decimals Pre and Post test on Using Decimals</p> <p><b>MT</b> Number Sense and Numeration – Activities – Preservation Path</p>	

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**Chapter 9 Fraction Concepts**

<b>Chapter-Lesson</b>	<b>TE Pg. #</b>	<b>Lesson Objective</b>	<b>Computer Program</b>	<b>Essential Objective</b>
9-1	334-335b	Explore: Primes and Composites	<b>MT</b> Patterning and Algebra – Tutorial - Number Patterns (has a nice explanation of Prime and Composite Numbers)  <b>MT</b> Patterning and Algebra – Practice #s 13, 14	
9-2	336-337	Common Factors and Greatest Common Factor	<b>MT</b> Patterning and Algebra – Tutorial - Number Patterns – Number Patterns Lesson 7 (Click the right arrow until Number Patterns 7 comes up. Have students do this section.)  <b>MT</b> Patterning and Algebra – Practice # 16	
9-3	338-339	Common Multiples and Least Common Multiples	<b>MT</b> Patterning and Algebra – Practice # 16	
9-4	340-341	Developing Skills for Problem-Solving		
9-5	342-343	Relating Fractions and Decimals	<b>CS (A)</b> Using Decimals and Fractions – Lesson 2 Decimals and Percents  <b>MT</b> Number Sense and Numeration – Tutorial – Fractions - Comparing Fractions and Decimals  <b>MT</b> Number Sense and Numeration – Practice #s 13, 30, 41	
9-6	344-345	Explore: Relating Fractions to One Half and One	<b>MT</b> Number Sense and Numeration – Fractions – Introducing Fractions	
9-7	346-347	Fractions Greater Than One	<b>MT</b> Number Sense and Numeration – Practice # 12, 26,	

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9-8	350-351	Problem-Solving Strategy		
9-9	352-353	Equivalent Fractions	<p><b>CS (A)</b> Using Decimals and Fractions – Lesson 7</p> <p><b>CS (B)</b> Using Fractions and Percents – Lesson 1</p> <p><b>MT</b> Number Sense and Numeration – Tutorial - Fractions – Equivalent Fractions</p> <p><b>MT</b> Number Sense and Numeration – Practice # 28, 29</p> <p><b>MT</b> Number Sense and Numeration – Activities – In Search of the Reptile and Equivalent Fractions</p>	
9-10	356-357	Fractions in Simplest Form	<b>MT</b> Number Sense and Numeration – Tutorial - Fractions – Simplifying Fractions	
9-11	358-361	Comparing and Ordering Fractions and Mixed Numbers	<b>MT</b> Number Sense and Numeration – Practice #12, 26	
9-12	362-363a	Problem Solving Application	Math Concepts Level 1, Unit 7, Fractions	
9 Test Prep	356-357	Fraction Concepts		

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**Chapter 10 Working With Fractions**

<b>Chapter-Lesson</b>	<b>TE Pg. #</b>	<b>Lesson Objective</b>	<b>Computer Program</b>	<b>Essential Objective</b>
10-1	376-379	Adding Fractions and Mixed Numbers: Like Denominators	<p><b>CS (A)</b> Using Decimals and Fractions-Lesson 3</p> <p><b>CS (B)</b> Using Fractions and Percents – Lesson 2 Addition of Fractions</p> <p><b>MT</b> Number Sense and Numeration – Tutorial – Fractions – Adding and Subtracting Fractions</p> <p>MT Number Sense and Numeration – Activities – In Search of the Reptiles</p>	
10-2	380-383	Subtracting Fractions and Mixed Numbers: Like Denominators	<p><b>CS (A)</b> Using Decimals and Fractions-Lesson 4</p> <p><b>CS (B)</b> Using Fractions and Percents – Lesson 3 Subtraction of Fractions</p> <p><b>MT</b> Number Sense and Numeration – Tutorial – Fractions – Adding and Subtracting Fractions</p> <p><b>MT</b> Number Sense and Numeration – Activities – In Search of the Reptiles</p>	
10-3	384-385	Developing Skills for Problem Solving		
10-4	386-387	Estimating Sums and Differences of Mixed Numbers		
10-5	388-389b	Explore: Working With Fractions With Unlike Denominators		
10-6	390-391	Adding Fractions with Unlike Denominators	<p><b>CS (B)</b> Using Fractions and Percents – Lesson 2 Addition of Fractions</p> <p><b>MT</b> Number Sense and Numeration –</p>	

			Tutorial – Fractions – Adding and Subtracting Fractions  <b>MT</b> Number Sense and Numeration – Activities – In Search of the Reptiles	
10-7	392-393	Subtracting Fractions with Unlike Denominators	<b>CS (B)</b> Using Fractions and Percents – Lesson 3 Subtraction for Fractions  <b>MT</b> Number Sense and Numeration – Tutorial – Fractions – Adding and Subtracting Fractions	
10-8	394-395	Adding Mixed Numbers		
10-9	396-397	Subtracting Mixed Numbers		
10-10	400-401	Problem-Solving Strategy		
10-11	402-403	Multiplying Whole Numbers and Fractions		
10-12	404-405	Explore Modeling Fraction Multiplication	<b>MT</b> Number Sense and Numeration – Tutorial – Fractions – Multiplying and Dividing Fractions  <b>CS (A)</b> Using Decimals and Fractions – Lesson 10 Multiplication of Fractions  <b>CS (B)</b> Using Fractions and Percents – Lesson 4 Multiplication of Fractions	
10-13	406-409	Multiplying Fractions and Mixed Numbers	<b>CS (A)</b> Using Decimals and Fractions – Lesson 5  <b>CS (B)</b> Using Fractions and Percents – 4 Multiplication of Fractions	
10-14	410-411	Explore: Dividing by Fractions	<b>CS (B)</b> Using Fractions and Percents – Lesson 5 Division of Fractions	

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			<b>MT</b> Number Sense and Numeration – Tutorial – Fractions – Multiplying and Dividing Fractions	
10-15	412-413a	Problem-Solving Application		
10 Test Prep	416-421	Chapter End	<b>CS (A)</b> Using Decimals and Fractions – Lesson 10 <b>CS (B)</b> Using Fractions and Percents Lessons 4 & 5	

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**Chapter 11 Measurement**

<b>Chapter-Lesson</b>	<b>TE Pg. #</b>	<b>Lesson Objective</b>	<b>Computer Program</b>	<b>Essential Objective</b>
11-1	424-427	Units of Time	<p><b>MT</b> Measurement – Tutorial – Time</p> <p><b>MT</b> Measurement – Practice #s 16, 17, 18, 19 (real life problems related to elapsed time), 20 ( real life problems related to time zones)</p> <p>Suggestion: Try the Internet and Yahoo!igans → School Bell → Math → Measurements and Units → Time (There are many sites with information about time.)</p>	EO 6
11-2	428-431	Customary Units of Length	<p><b>MT</b> Measurement – Tutorial – Linear measurement</p> <p>Suggestion: Try the Internet and Yahoo!igans → School Bell → Math → Measurements and Units</p>	
11-3	432-433	Developing Skills for Problem Solving		
11-4	434-435	Customary Units of Capacity	<b>MT</b> Measurement – Tutorial – Linear measurement	
11-5	436-437	Customary Units of Weight		
11-6	438-441	Customary Units of Length	<b>MT</b> Measurement – Activities – Linear estimate or measure	
11-7	442-443	Metric Units of Capacity	<b>MT</b> Measurement – Tutorial – Volume and Capacity	
11-8	444-445	Metric Units of Mass	<b>MT</b> Measurement – Tutorial- Mass	
11-9	446-447	Celsius and Fahrenheit Temperatures	<b>MT</b> Measurement – Tutorial –	

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			Temperature (Celsius only)	
11-10	450-451	Problem-Solving Strategy		
11-11	452-453	Perimeter	<b>MT</b> Measurement – Tutorial - Perimeter and Area  <b>MT</b> Measurement – Activities – Area and Volume Explorer  <b>MT</b> Measurement – Problems # 4, 5, 6	
11-12	454-455	Area of Rectangles and Squares	<b>MT</b> Measurement- Tutorial – Perimeter and Area  <b>MT</b> Measurement Area and Perimeter Explorer	
11-13	456-459	Area of Parallelograms and Triangles	<b>MT</b> Measurement – Practice - #s 9, 12	
11-14	460-461a	Problem-Solving Application		
11-15	462-463	Explore: Volume	<b>MT</b> Measurement – Tutorial – Volume and Capacity  <b>MT</b> Measurement – Activities – Area and Volume Explorer  <b>MT</b> Measurement – Practice - #s 28, 29	EO 7
11 Test Prep	466-471	Measurement		

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**Chapter 12 Ratio, Percent, and Probability**

<b>Chapter-Lesson</b>	<b>TE Pg. #</b>	<b>Lesson Objective</b>	<b>Computer Program</b>	<b>Essential Objective</b>
12-1	474-475	Understanding Ratios		
12-2	476-477	Equivalent Ratios		
12-3	478-481	Exploring Scale Drawing		
12-4	482-483	Understanding Rates		
12-5	484-485	Developing Skills for Problem Solving		
12-6	486-487	Explore: Understanding Percent	<b>CS (A)</b> Using Decimals and Fractions – Lesson 2 Decimals and Percents	
12-7	488-489	Relating Percents, Decimals, and Fractions		
12-8	492-493	Problem-Solving Strategy		
12-9	494-495b	Explore: Understanding Probability	<b>MT</b> Data Management – Tutorial – Probability  <b>MT</b> Data Management and Probability – Activities – Exploring Probability	
12-10	496-497	Finding Probability	<b>MT</b> Data Management – Tutorial – Probability  <b>MT</b> Data Management and Probability – Activities – Exploring Probability and Spinner Probability  <b>MT</b> Data Management and Probability – Practice #s 7, 8, 9, 10, 11	
12-11	498-501	Fair and Unfair Games		
12-12	502-503	Tree Diagrams		

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12-13	504-505a	Problem-Solving Application		
12 Test Prep	508-513	Ratio, Percent, and Probability		

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