Washington Township Public Schools COURSE OF STUDY – CURRICULUM GUIDE

	Course:	Everyday Mathematics 4 – Grade 2				
Written By:	Suzie Bre	ennan				
Under the Dire	ection of:	Gretchen Gerber				
Description:		Everyday Mathematics 4 is designed to teach the content required by the Common Core State Standards. In second grade, that content focuses on procedures, concepts, and applications in four critical areas:				
		 Understanding of base-10 notation Building fluency with addition and subtraction Using standard units of measure Describing and analyzing shapes 				
		Throughout Everyday Mathematics, emphasized is placed on:				
		 Problem solving in everyday situations and mathematical contexts An instructional design that revisits topics regularly to ensure depth of knowledge and long-term learning Distributed practice through routines, games, and other activities Teaching that supports "productive struggle" and maintains high cognitive demand Lessons and activities that engage all children and make mathematics fun 				
		Jack McGee: Interim Assistant Superintendent for Curriculum & Instruction Gretchen E. Gerber: Director of Elementary Education Cleve Bryan: Interim Director of Secondary Education				
		Written: August 2015				
		Revised:				
		BOE Approval:				

DEMONSTRABLE PROFICIENCIES

COURSE TITLE: Everyday Mathematics 4 – Grade 2

I. CLASSWORK REQUIREMENTS

Α.

II. ATTITUDE & BEHAVIOR

Α.

III. COURSE OBJECTIVES/OVERVIEW

- A. COURSE CONTENT
- B. SKILLS
- C. APPRECIATION OF CONCEPTS

IV. ATTENDANCE

Attendance: Refer to Board of Education Policy

V. GRADING PROCEDURES

Α.

MAJOR UNITS OF STUDY

Course Title: _____Everyday Mathematics – Grade 2

- I. Establishing Routines
- II. Fact Strategies
- III. More Fact Strategies
- IV. Place Value and Measurement
- IV. Addition and Subtraction
- V. Whole Number Operations and Number Stories
- VI. Whole Number Operations and Measurement and Data
- VII. Geometry and Arrays
- VIII. Equal Shares and Whole Number Operations

Course Title: Everyday Mathematics 4 – Grade 2

Unit #: UNIT 1 OVERVIEW

Unit Title: Establishing Routines

Unit Description and Objectives:

- 1-1 *Numbers All Around* Students explore counts and represent whole numbers as lengths from 0 on a number line. Students will understand place value. Students will relate addition and subtraction to length.
- 1-2 Number Lines and Partnership Principles Students practice partnership principles while solving addition and subtraction number stories and representing whole-number sums and differences on a number line. Students will add and subtract within 20. Students will understand place value. Students will relate addition and subtraction to length.
- 1-3 *Math Tools* Students count tallies and calculate the values of coin combinations. Students will understand place value. Students will work with time and money.
- 1-4 Class Number Scroll Students make a class number scroll from 0 to 1,000 using place-value strategies. Students will understand place value. Students will use place value understanding and properties of operations to add and subtract.
- 1-5 Number-Grid Puzzles Students use patterns to solve an open response problem. Students discuss selected solutions and explanations and revise their work. Students will understand place value. Students will use place value understanding and properties of operations to add and subtract.
- 1-6 *Equivalent Names for Numbers* Students use addition and subtraction to write equivalent names for numbers. They reinforce place-value concepts by skip counting on calculators. Students will add and subtract within 20. Students will understand place value. Students will use place value understanding and properties of operations to add and subtract.
- 1-7 *Playing Fishing for 10* Students build fact fluency by finding combinations of 10. Students will all and subtract within 20. Students will understand place value.
- 1-8 My Reference Book, Quarters, and Math Boxes Students investigate My Reference Book and are introduced to the quarter and Math Boxes. Students will understand place value. Students will work with time and money.
- 1-9 *Even and Odd Number Patterns* Students explore even and odd numbers using concrete and visual models. Students will work with equal groups of objects to gain foundations for multiplication.
- 1-10 Skip-Counting Patterns Students skip count on calculators and number grids and look for place-value patterns in their counts. Students will understand place value.
- 1-11 Comparing Numbers and Home Links Students discuss the meaning of the <, >, and = symbols and use the symbols to record comparisons of numbers, money amounts, and addition and subtraction expressions. Students will add and subtract within 20. Students will understand place value. Students will work with time and money.
- 1-12 *Exploring Base-10 Blocks, Area, and Dominoes* Students count by 100s and 10s to find the value of base-10 "buildings", use shapes to cover rectangles, and sort dominoes according to the number of dots. Students will add and subtract within 20. Students will understand place value. Students will use place value understanding and properties of operations to add and subtract. Students will reason with shapes and their attributes.

1-13 **Unit 1 Progress Check** -Assess students' progress of mathematical content of Unit 1 using Self Assessment, Written Assessment, and Open Response Assessment. Revised: 2015

Essential Questions and Enduring Understandings:

Essential Questions:	Enduring	Guiding Questions		
	Understandings/Generalizations			
	Students will understand that:			
1. What number patterns are helpful in reading and writing numbers to 1,000?	 Numbers can be counted and sequenced on a number line. Number lines and number grids can help with skip counting. 	 1.1 What strategies can be used to continue a numerical sequence? 1.2 Where can you find patterns in math? 1.3 Why is it important to know how to find patterns in mathematics? 1.4 Why are patterns important in math? 		
2. What strategies can be used to count money?	2. Specific coins or bills each have a unique value. The size of a coin does not indicate its value. Money amounts can usually be counted in different ways. When counting money, it is usually easier to start with the coin or bill with the greatest value. The amount of money can often be represented using different combinations of coins and bills.	2.1 Why is it important to be able to count amounts of money?2.2 What are the different ways to represent an amount of money?2.3 How do you know if you have enough money to buy something?		
3. How can sums be found mentally?	 Combinations of 10 will develop mental strategies for solving addition facts. 	 3.1 What is mental math? 3.2 What strategies will help me add numbers quickly and accurately? 3.3 Why would these strategies be useful in everyday activities? 		
4. How do you know if a group of objects has an odd or even number of members?	4. Even numbers are the sum of two equal addends.	4.1 How do I figure out if a number is odd or even?4.2 Why is the sum of two even numbers an even number?		
5. How can numbers to 100 be shown and compared?	5. Place value can be used to compare and order numbers	 5.1 Why should I understand place value? 5.2 What are the different ways to represent a number? 5.3 What is the difference between place and value? 5.4 How do I use place value to compare two or more numbers? 		

UNIT GRAPHIC ORGANIZER



CURRICULUM UNIT PLAN

Course Title/Grade:	Everyday Mathematic	cs 4 – Grade 2	Prima	ry Core Content Standa	ards referenced With	<u>n Cumulative</u>	Progress Indicators
Unit Number/Title:	Unit 1 Establishing	Routines	2.NBT	2 2.NBT	.3 2.NB	T.4	2.NBT.5
Conceptual Lens:	Establishing Routines	6	2.MD.6	2.MD.	8 2.OA	.2	2.OA.3
Appropriate Time All	ocation (# of						
Days):	·	15 days					
<u>Topics/Concepts</u> (Incl. time / # days per topic)	Critical Content (Students Will Know:)	<u>Skill Objectives</u> (Students Will Be Able To:)	Instructional/Learning Activities & Interdisciplinary Connections	Instructional Resources	Technology & 21st C Skills Integration (Specify)	<u>NJCCCS w/</u> <u>CPI Reference</u>	Evaluation/ Assessment:
In Unit 1 students will work in an active, collaborative environment to learn both mathematics content and mathematics practice. Student learning will focus on: • Operations and Algebraic Thinking (Add and Subtract within 20) • Number and Operations in Base Ten (Understanding place value) • Measurement and Data (Working with time and money) Unit 1 focuses on the following concepts: • Number Lines • Coins • Number Grids and Number Scrolls • Quick Look Routines	 How to count and sequence numbers on a number line. Coins represent different values Number grids can help with pattern recognition and place- value concepts Equivalent names for numbers can be expressed in a variety of ways Combinations of 10 will develop mental strategies for solving addition facts Even numbers are the sum of 	 1.1 Explore counts and represent whole numbers as lengths from 0 on a number line. 1.2 Practice partnership principles while solving addition and subtraction number stories and representing whole-number sums and differences on a number line. 1.3 Count tallies and calculate the values of coin combinations. 1.4 Make a class scroll from 0 to 1,000 using place-value strategies. 1.5 Day 1: Use patterns to solve and open response problem. Day 2: Discuss selected solutions and explanations and revise their work. 1.6 Use addition and subtraction to write equivalent names for numbers. Reinforce place-value concepts 	 Every lesson includes differentiation options for several groups of learners including Readiness, Enrichment, Extra Practice and Beginning English Language Learner Support. Refer to the second page of each lesson for these instructional learning activities. They are also listed on the following page. Learning Activities – Follow Teacher's Lesson Guide Volume 1 pages 56 – 137 for lesson activities Include Math Stations to assist struggling and advanced learners Science – Every Lesson – See TM pages 24 – 37 to implement the Weather Routine and Temperature Routine. ELA 1.1 – 1.13 	See page 46 of Teacher's Lesson Guide for instruction materials per lesson. Math Masters Activity Cards 1 - 19 Class Number Line Class Number- Line Poster Number cards Dice Toolkit coins Pattern-Block Template Scissors Glue Tape Index cards Slate Crayons Quick Look Cards Calculator Counters Everything Math Deck <i>My Reference</i> <i>Book</i>	Everyday Math online: http://connected.mcgraw- hill.com/connected/ 8.1.2.A.1 8.1.2.A.4 8.1.2.E.1 - Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually to collaborate and to create and communicate knowledge. Students will: • Understand and use technology systems • Select and use applications effectively and productively. • Plan strategies to guide inquiry. • Locate, organize, analyze, evaluate,	8.1.2.A.1 8.1.2.A.4 8.1.2.E.1 8.2.2.B.1 8.2.2.B.4 8.2.2.D.1	Formative Assessments: Math Message Mental Math and Fluency Math Boxes Use of White Board Questions & Answers Think, Pair, Share Home Links Math Masters Math Games Teacher Observation Summative Assessment(s) Unit Progress Check – Self Assessment, Written Assessment and Open Response Assessment District Benchmarks STAR Addition and Subtraction Fact Quizzes

Topics/Concepts (Incl. time / # days per topic)	<u>Critical Content</u> (Students Will Know:)	<u>Skill Objectives</u> (Students Will Be Able To:)	Instructional/Learning Activities & Interdisciplinary Connections	Instructional Resources	<u>Technology & 21st C Skills</u> <u>Integration (Specify</u>)	NJCCCS w/ CPI Reference	Evaluation/ Assessment:
 Equivalent Names for Numbers Combinations of 10 Even and Odd Number Patterns Comparing Numbers Using <, >, and = 	two equal addends Numbers can be compared and contrasted	by skip counting on calculators. 1.7 Build fact fluency by finding combinations of 10. 1.8 Investigate <i>My</i> <i>Reference Book</i> and be introduced to the quarter and Math Boxes. 1.9 Explore even and odd numbers using concrete and visual models. 1.10 Skip count on calculators and number grids and look for place-value patterns in their counts. 1.11 Discuss the meaning of the <, >, and = symbols and use the symbols to record comparisons of numbers, money amounts, and addition and subtraction expressions. 1.12 Count by 100s and 10s to find the value of base-10 "buildings", use shapes to cover rectangles, and sort dominoes according to the number of dots. 1.13 Day 1 - Demonstrate skills learned in Unit 1 through a Self Assessment and Unit Assessment. Day 2 – Demonstrate skills learned in Unit 1 by	 Teacher models and reviews key vocabulary terms. Essential content specific vocabulary can be found in the introductory material on the first page of every lesson Each Unit provides students with the opportunity to answer open ended response questions. ELA - 1.3 TM 69. Lots of Ladybugs! Counting by Fives, by Michael Dahl, Picture Window Books, 2005 Social Studies – 1.4 TM 78. Students will work in small groups to create a class scroll from separate number grids. Technology – 1.6 – TM 93 - 94. Students count on a calculator and solve broken- calculator problems. ELA - 1.8 TM 104. Students review text features in <i>My Reference Book</i>. ELA - 1.9 TM 109. Even Steven and Odd Todd, by Kathryn Cristaldi, Scholastic Inc., 1996 Technology – 1-10 TM 117. Students will skip count with a calculator. 	 Class Data Pad Quarter-sheet of Paper 	synthesize and ethically use information from a variety of sources and media. • Evaluate and select information sources and digital tools based on the appropriateness for specific tasks. <i>Students utilize a variety</i> of websites and videos as digital tools to analyze, synthesize and solve problems. Online daily assessment checks will provide students with the opportunity to apply and practice lesson concepts and skills. <i>In each unit, an open</i> <i>ended response lesson</i> provides opportunities for individuals to collaborate with planning and managing a variety of activities. They collect and analyze data to identify solutions and make informed decisions 8.2.2.B.1 8.2.2.B.1 8.2.2.D.1 Technology Education, Engineering, Design, Computational Thinking – Programming: All students will develop an understanding of the		

Topics/Concepts (Incl. time / # days per topic)	<u>Critical Content</u> (Students Will Know:)	<u>Skill Objectives</u> (Students Will Be Able To:)	Instructional/Learning Activities & Interdisciplinary Connections	Instructional Resources	<u>Technology & 21st C Skills</u> <u>Integration (Specify</u>)	NJCCCS w/ CPI Reference	Evaluation/ Assessment:
		completing an Open Response Assessment	http://media2.k12.mhedu.com /repository/private_data/DOC/ 50001139/59/67.pdf		nature and impact of technology, engineering, technological design, computational thinking and the designed world as they relate to the individual, global society, and the environment.		
					 Students will be able to understand: The cultural, social, economical, and political effects of technology. The influence of technology on history. Apply the design process 		
					Through the integration and interdisciplinary connections in each unit, students will develop the understanding that math relates to the individual and global society. Activity cards and enrichment activities provide a variety of options for developing computational strategies.		

Unit Modifications for Special Population Students:

Struggling Learners	Gifted and Talented Students (Challenge Activities)	English Language Learners	Special Education Students
Readiness Activities, Extra Practice Activities,	Enrichment Activities	Vocabulary, Readiness Activities, Extra Practice	Readiness Activities, Extra Practice Activities,
Differentiation Support		Activities, Differentiation Support	Differentiation Support
 Readiness Activities, Extra Practice Activities, Differentiation Support *See Unit 1 Differentiating Lesson Activities online resource for differentiation support for children who need more scaffolding. http:// connected.mcgraw-hill.com Readiness Activities 1-1 Ordering Numbers (Activity Card 1) 1-2 Hopping on a Number Line (TM p. 63) 1-3 Counting Pennies with Tally Marks (TM p. 69) 1-4 Counting on the Number Grid (TM p. 75) 1-5 See Lesson 5 1-6 Playing <i>Two-Fisted Penny Addition</i> (Activity Card 6) 1-7 <i>Penny Plate</i> (TM p. 97) 1-8 Playing <i>The Exchange</i> <i>Game</i> with Pennies, Nickels, and Dimes (Activity Card 11) 1-9 Dividing Groups in Half (TM p. 109) 1-10Counting by 2s, 5s, and 10s (TM p.115) 1-11Using Weight to Illustrate Equalities and Inequalities (TM p. 121) 1-12Counting by 100s and 10s (TM p. 127) 	(Challenge Activities) Enrichment Activities 1-1 Solving Number-line Puzzles (TM p. 57) 1-2 Making a Number Line (Activity Card 3) 1-3 Finding Equivalent Coins (Activity Card 4) 1-4 Making Number Scrolls (Activity Card 5) 1-5 See Lesson 5 1-6 Solving Calculator Place-Value Puzzles (Activity Card 7) 1-7 Fishing for 100 (Activity Card 9) 1-8 Quarter-Dime-Nickel-Penny Grab (Activity Card 12) 1-9 Even and Odd Numbers (Activity Card 13) 1-10Solving Calculator-Count Problems (TM p. 115) 1-11Number Top-it (Activity Card 15) 1-12Examining the Domino Sort (TM p. 127)	 Vocabulary, Readiness Activities, Extra Practice Activities, Differentiation Support *See Unit 1 Differentiation Support for children who need more scaffolding. http:// connected.mcgraw-hill.com 1-1 Use Total Physical Response (TPR) technique (TM p. 57) 1-2 Include the following conventional English phrases used in partnership activities: It's my turn; Let's take turns; Let's share; Good work; Good thinking; Good job. 1-3 Identify and label common classroom objects (slates, toolkits and Pattern-Block Templates). (TM p. 69) 1-4 Introduce the word <i>pattern</i> by showing examples of simple patterns and examples that are not patterns. 1-5 See Lesson 5 1-6 Introduce the word <i>broken</i>, contrast examples of unbroken and broken objects. (TM p. 91) 1-7 Say, write and model the following game actions for <i>Fishing for 10</i>: Shuffle the cards; Turn over the cards; Turn the card face-side up; Turn the card face-side down; Go fish; Draw one more. 1-8 Introduce the word <i>quick</i> to show expectations of a quick response to the cards flashed in the Quick Looks routine. (TM p. 103) 	 Readiness Activities, Extra Practice Activities, Differentiation Support *See Unit 1 Differentiation support for children who need more scaffolding. http:// connected.mcgraw-hill.com Readiness Activities 1-1 Ordering Numbers (Activity Card 1) 1-2 Hopping on a Number Line (TM p. 63) 1-3 Counting Pennies with Tally Marks (TM p. 69) 1-4 Counting on the Number Grid (TM p. 75) 1-5 See Lesson 5 1-6 Playing <i>Two-Fisted Penny Addition</i> (Activity Card 6) 1-7 Penny Plate (TM p. 97) 1-8 Playing <i>The Exchange</i> <i>Game</i> with Pennies, Nickels, and Dimes (Activity Card 11) 1-9 Dividing Groups in Half (TM p. 109) 1-10Counting by 2s, 5s, and 10s (TM p.115) 1-11Using Weight to Illustrate Equalities and Inequalities (TM p. 121) 1-12Counting by 100s and 10s (TM p. 127)
		1-9 Determine English Language Learners' understanding of the terms even numbers and	
		odd numbers (TM p. 109)	
		1-10Introduce the term skip as "to jump over and	
		omit something" (TM p. 115)	
		1-11Provide English Language Learners' with	
		visual aids for the key math terms in the	
		lesson. (TM. 121)	

	1-12Exploration A – display pictures of various buildings to show the word <i>building</i> can describe many types of structures. (TM p. 127)	
 Extra Practice 1-1 Counting on a Number Line (Activity Card 2) 1-2 Working with a Partner to Solve Number Stories (TM 63) 1-3 Counting by Fives in Literature (TM 69) 1-4 Practicing with a Number Grid (TM p. 75) 1-5 1-6 Finding Equivalent Names (Activity Card 8) 1-7 <i>Turning Over 10</i> (Activity Card 10) 1-8 More Practice with Math Boxes (TM p 103) 1-9 Finding Even and Odd Numbers in Literature (TM 109) 1-10Skip Counting (Activity Card 14) 1-11Using <, >, and = (Activity Card 16) 1-12Finding Equivalent Names (Activity Card 8) 	Unit 1 Vocabulary: combinations of 10; cube; equivalent names; even numbers; Explorations; flat; long; Math Boxes; Math Message; multiple of 10; nickel; number grid; number line; number scroll; odd number; pattern; quarter	 Extra Practice 1-1 Counting on a Number Line (Activity Card 2) 1-2 Working with a Partner to Solve Number Stories (TM 63) 1-3 Counting by Fives in Literature (TM 69) 1-4 Practicing with a Number Grid (TM p. 75) 1-5 1-6 Finding Equivalent Names (Activity Card 8) 1-7 <i>Turning Over 10</i> (Activity Card 10) 1-8 More Practice with Math Boxes (TM p 103) 1-9 Finding Even and Odd Numbers in Literature (TM 109) 1-10Skip Counting (Activity Card 14) 1-11Using <, >, and = (Activity Card 16) 1-12Finding Equivalent Names (Activity Card 8)

Course Title: Everyday Mathematics 4 – Grade 2

Unit #: UNIT 2 OVERVIEW

Unit Title: Fact Strategies

Unit Description and Objectives:

- 2-1 Grouping by 10s Students explore place-value concepts as they play The Exchange Game with money and practice grouping by 10s using \$1, \$10, and \$100 bills. Students will understand place value. Students will use place value understanding and properties of operations to add and subtract. Students will work with time and money.
- 2-2 Addition Number Stories Students write and solve addition number stories. Students will represent and solve problems involving addition and subtraction. Students add and subtract within 20.
- 2-3 Doubles and Combinations of 10 Students explore doubles and combinations of 10 to build fact fluency. Students will add and subtract within 20.
- 2-4 *The Making-10 Strategy* Students use a strategy based on place value to add within 20. Students will add and subtract within 20. Students use place value understanding and properties of operations to add and subtract.
- 2-5 *The Near-Doubles Strategy* Students use the near-doubles strategy to solve addition facts. Students will add and subtract within 20. Students will use place value understanding and properties of operations to add and subtract.
- 2-6 *The Turn-Around Rule for Addition* Students use dominoes to explore the turn-around rule for addition. Students will add and subtract within 20. Students will use place value understanding and properties of operations to add and subtract.
- 2-7 Subtraction and the Turn-Around Rule Day 1 Students solve an open response problem by writing number stories and models. Day 2 Students discuss solutions and revise their work. Students will represent and solve problems involving addition and subtraction. Students add and subtract within 20. Students use place value understanding and properties of operations to add and subtract.
- 2-8 *Exploring Addition Tools, Odd and Even Patterns, and Shapes* Students explore counting up, odd and even numbers, and shapes. Students will work with equal groups of objects to gain foundations for multiplication. Students will use place value understanding and properties of operations to add and subtract. Students will reason with shapes and their attributes.
- 2-9 *Even Numbers and Equal Addends* Students identify even and odd numbers, and they write number models to express even and odd numbers as sums. Students will add and subtract within 20. Students will work with equal groups of objects to gain foundations for multiplication.
- 2-10 Name-Collection Boxes Students generate equivalent names for numbers and write them in name-collection boxes. Students will add and subtract within 20. Students will understand place value. Students will use place value understanding and properties of operations to add and subtract.
- 2-11 *Playing Name That Number* Student find many ways to name numbers. Students will add and subtract within 20. Students will understand place value. Students will use place value understanding and properties of operations to add and subtract.
- 2-12 Frames and Arrows Students skip count, add, and subtract to solve Frames-and-Arrows problems. Students will understand place value. Students will use place value understanding and properties of operations to add and subtract.
- 2-13 Unit 2 Progress Check Assess students' progress of mathematical content of Unit 2 using Self Assessment, Unit Assessment, and Cumulative Assessment.

Essential Questions and Enduring Understandings:

Essential Questions:	Enduring	Guiding Questions
	Understandings/Generalizations	
	Students will understand that:	
1. What are strategies for finding addition facts?	1. Doubles facts can be associated with memorable real-world situations. Basic addition facts that are near doubles can be found using a related doubles fact. Addition facts involving 9 can be changed to an equivalent fact with 10. Addition facts involving 8 can be changed to an equivalent fact with 10. Two numbers can be added in any order.	 1.1 Can we change the order of numbers when we add (or subtract)? Why or why not? 1.2 How do I use the properties of addition to simplify problems involving numbers? 1.3 How can double facts help in solving addition and subtraction problems? 1.4 How can you use a doubles fact to solve a near doubles problem?
2. How do you know if a group of objects has an odd or even number of members?	2. Odd or even numbers can be recognized by counting a group and comparing them.	2.1 How are even and odd numbers different?2.2 How does the ones digit help to tell if a number is even or odd?2.3 How can you show odd or even within a group of objects?
3. How do you find different equivalent names for numbers?	 Equivalent names for numbers help with learning basic addition and subtraction facts. 	3.1 How might we represent the same number in different way?3.2 Why is it useful for us to be able to represent the same number differently?3.3 How can decomposing a number help you learn basic addition facts?

UNIT GRAPHIC ORGANIZER



CURRICULUM UNIT PLAN

Course Title/Grade:	Everyday Mathematic	cs 4 – Grade 2	<u>Prima</u>	<u>ry Core Content Standa</u>	ards referenced With	Cumulative	Progress Indicators
Unit Number/Title:	Unit 2 – Fact Strategi	es	2.NBT.	2.NBT	.2 2.NB	Г.З	2.NBT.5
Conceptual Lens:	Fact Strategies		2.NBT.	7 2.NBT	.9 2.OA	.1	2.0A.2
Appropriate Time All	ocation (# of						
Davs):		15 Davs	2.OA.3	2.MD.6	6 2.MD	.8	2.G.1. 2.G.3
<i>,</i>							
Topics/Concepts	Critical Content	Skill Objectives	Instructional/Learning Activities	Instructional Resources	Technology & 21st C Skills	NJCCCS w/	Evaluation/ Assessment:
(Incl. time / # days per topic)	(Students Will Know:)	(Students Will Be Able To:)	<u>& Interdisciplinary Connections</u>	<u></u>	Integration (Specify)	CPI Reference	
In Unit 2 students will	The value of a	2-1 Explore place-value	Every lesson includes	See page 140 of Teacher's	Everyday Math online:	8.1.2.A.1	Formative
review and extend their	number is	concepts as they play	differentiation options for	Lesson Guide for Instruction	http://connected.mcgraw-	8.1.2.A.4	Assessments:
understanding of fact	determined by its	The Exchange Game	several groups of learners	materiais per lesson.	hill.com/connected/	01051	Math Message
routines from First Grade	place value	practice grouping by	Enrichment Extra Practice	Toolkit bills	81211	0.1.Z.E.1	Mental Math and
Everyday Mathematics.	 TO write and solve number 	10s using \$1, \$10 and	and Beginning English	6 sided dice	8.1.2.A.4	8.2.2.B.1	Fluency
Students will have	stories and	\$100 bills.	Language Learner Support.	 Activity Cards 6, 	8.1.2.E.1	8.2.2.B.4	Math Boxes
frequent experiences with	represent the	2-2 Write and solve	Refer to the second page of	19-34	 Educational 	82201	 Use of White Board
these strategies and	stories with	addition number	each lesson for these	Quick Look	Technology: All	0.2.2.0.1	 Questions &
routines to prepare	drawings and	stories.	instructional learning	Cards	students will use digital		Answers
children to now from	number models	2-3 Explore doubles and	activities. They are also	Number cards 0-	tools to access,		 Think, Pair, Share
memory all sums of two	 Number stories 	combinations of 10 to	listed on the following page.	10 Countors	manage, evaluate, and		 Home Links
1- digit numbers by the	provide practice	build fact fluency.	Leonaire a Activitie e	Counters	synthesize information		 Math Journals
learning will focus on:	with facts and	2-4 Use a strategy based	Learning Activities – Eallow Topphar's		In order to solve		 Math Masters
	multi-digit	within 20	Follow Teacher's		collaborate and to		 Math Games
Operations and Algebraic	computation	2-5 Use the near-doubles	Volume 1 pages 150	Dominoes	create and		Teacher
Thinking (Add	Ine Commutative Dreporty of	strategy to solve	- 231 for lesson		communicate		Observation
and subtract	Addition will holp	addition facts	activities	Envelope Denen alia	knowledge		
within 20)	develop	2-6 Use dominoes to	Include Math Stations	Paper clip Dubber bond	egei		Summative
Number and	automatic recall	explore the turn-	to assist struggling		Students will:		Assessment(s)
Operations in	of addition facts	around rule for	and advanced	• Slate	 Understand and 		Unit Progress
Base Ten (Use	Doubles facts	addition.	learners	Crait Slick Class Data Data	use technology		Check – Self
place value	always have an	2-7 Day 1 – Solve an open	Science – Every Lesson –		systems		Assessment,
understanding	even sum	response problem by	See TM pages 24 – 37 to	Green and blue	 Select and use 		Accessment and
and properties of	Equivalent names	writing number stories	implement the Weather	Clayons	applications		
operations to add	for numbers	and models. Day 2 –	Routine and Temperature		effectively and		Assessment
and subtract.	develops number	Discuss solutions and	Routine.	Pattorn Plack	productively.		
Unit 2 focuses on the	flexibility and	review their work.			 Plan strategies to 		Benchmarks
following	practice with	2-8 Explore counting up,	ELA 2.1 – 2.13	remplate	guide inquiry.		
Topics/Concepts:	basic facts	odd and even	I eacher models and reviews		 Locate, organize, 		- STAR
 Place value 		numbers, and snapes.	key vocabulary terms.		analyze, evaluate,		

<u>Topics/Concepts</u> (Incl. time / # days per topic)	<u>Critical Content</u> (Students Will Know:)	Skill Objectives (Students Will Be Able To:)	Instructional/Learning Activities & Interdisciplinary Connections	Instructional Resources	<u>Technology & 21st C Skills</u> <u>Integration (Specify</u>)	NJCCCS w/ CPI Reference	Evaluation/ Assessment:
 Number Stories Helper Facts The Commutative Property of Addition Even and Odd Numbers Equivalent Names for Numbers Frames and Arrows 	Identifying patterns in numbers helps solve problems and completes a sequence	 2-9 Identify even and odd numbers. Write number models to express even and odd numbers as sums. 2-10 Generate equivalent names for numbers and write them in name-collection boxes. 2-11 Find many ways to name numbers. 2-12 Skip count, add, and subtract to solve Frames-and-Arrows problems. 2-13 Day 1 – Demonstrate skills learned in Unit 2 by competing a Self Assessment and Unit Assessment. Day 2 – Demonstrate skills learned in Unit 2 by completing a Cumulative Assessment. 	Essential content specific vocabulary can be found in the introductory material on the first page of every lesson Each Unit provides students with the opportunity to answer open ended response questions. ELA 2-3 – TM 163. Two of Everything: A Chinese Folktale by Lily Toy Hong. Technology 2.3 – TM163. Student will make doubles with a calculator ELA 2-9 - TM 201. One Odd Day and My Even Day by Doris Fischer (Sylvan Dell Publishing, 2007) Additional Literature Links: http://media2.k12.mhedu.com /repository/private_data/DOC/ 50001139/59/67.pdf		synthesize and ethically use information from a variety of sources and media. • Evaluate and select information sources and digital tools based on the appropriateness for specific tasks. Students utilize a variety of websites and videos as digital tools to analyze, synthesize and solve problems. Online daily assessment checks will provide students with the opportunity to apply and practice lesson concepts and skills. In each unit, an open ended response lesson provides opportunities for individuals to collaborate with planning and managing a variety of activities. They collect and analyze data to identify solutions and make informed decisions 8.2.2.B.1 8.2.2.B.1 8.2.2.D.1 Technology Education, Engineering, Design, Computational Thinking – Programming: All students will develop an understanding of the		Addition and Subtraction Fact Quizzes

<u>Topics/Concepts</u> (Incl. time / # days per topic)	<u>Critical Content</u> (Students Will Know:)	<u>Skill Objectives</u> (Students Will Be Able To:)	Instructional/Learning Activities & Interdisciplinary Connections	Instructional Resources	<u>Technology & 21st C Skills</u> <u>Integration (Specify</u>)	NJCCCS w/ CPI Reference	Evaluation/ Assessment:
					nature and impact of technology, engineering, technological design, computational thinking and the designed world as they relate to the individual, global society, and the environment.		
					 Students will be able to understand: The cultural, social, economical, and political effects of technology. The influence of technology on history. Apply the design process. 		
					Through the integration and interdisciplinary connections in each unit, students will develop the understanding that math relates to the individual and global society. Activity cards and enrichment activities provide a variety of options for developing computational strategies.		

Unit Modifications for Special Population Students:

Struggling Learners	Gifted and Talented Students (Challenge Activities)	English Language Learners	Special Education Students
Readiness Activities, Extra Practice Activities,	Enrichment	Vocabulary, Readiness Activities, Extra Practice	Readiness Activities, Extra Practice Activities,
Differentiation Support		Activities, Differentiation Support	Differentiation Support,
*See Unit 2 Differentiating Lesson Activities online		*See Unit 2 Differentiating Lesson Activities online	*See Unit 2 Differentiating Lesson Activities online
resource for differentiation support for children who		resource for differentiation support for children who	resource for differentiation support for children who
need more scaffolding.		need more scaffolding.	need more scaffolding.
http:// connected.mcgraw-hill.com		http:// connected.mcgraw-hill.com	http:// connected.mcgraw-hill.com
Readiness Activities	2.1 Finding Combinations of 100 (Activity Cord 20)	*See Readiness Activities and Extra Practice	Readiness Activities
2-1 Flaying The Exchange Game with Fernies and Nickole (TM 151)	2-1 Finding Combinations of 100 (Activity Card 20)	Activities	2-1 Flaying The Exchange Game with Fennies and Nickola (TM 151)
2-2 Putting Groups Together (TM 157)	Card 21)	2-1 Pair an English Language Learner with an	2-2 Putting Groups Together (TM 157)
2-3 Representing Doubles (TM 163)	2-3 Making Doubles with a Calculator (Activity	English-proficient partner to review directions	2-3 Representing Doubles (TM 163)
2-4 Plaving Two-Fisted Penny Addition (Activity	Card 22)	Have explanatory visuals for each direction	2-4 Plaving Two-Fisted Penny Addition (Activity
Card 6)	2-4 Exploring the Addition Eacts Table (TM 169)	2-2 Use Journal page 19 and questions on TM pg	Card 6)
2-5 Roll and Record Doubles (TM 175)	2-5 Using Helper Doubles Facts with Larger	157 to prepare children for writing number	2-5 Roll and Record Doubles (TM 175)
2-6 Recognizing Numbers on a Domino (TM 181)	Numbers (TM 175)	stories.	2-6 Recognizing Numbers on a Domino (TM 181)
2-8 Using a Ten Frame to Find Even and Odd	2-6 Checking the Turn-Around Rule with Larger	2-3 Introduce the term <i>doubles</i> by making	2-8 Using a Ten Frame to Find Even and Odd
Numbers (TM 195)	Numbers (TM181)	connections to everyday experiences.	Numbers (TM 195)
2-9 Using a Ten Frame to Find Even and Odd	2-8 Dividing Shapes (TM 195)	2-4 Build on classroom experiences to explain the	2-9 Using a Ten Frame to Find Even and Odd
Numbers (TM 201)	2-9 Even and Odd Addends (Activity Card 30)	meaning of the word <i>helper</i> .	Numbers (TM 201)
2-10 Playing Two-Fisted Penny Addition (Activity	2-10 Many Names for Numbers (Activity Card 31)	2-5 Illustrate the meaning of the word <i>near</i> .	2-10 Playing Two-Fisted Penny Addition (Activity
Card 10)	2-11 Writing Number Sentences for Name That	2-6 Teach children to use <i>turn around</i> to mean	Card 10)
2-11 Sorting Dominoes (Activity Card 19)	Number (1M 213)	switching or exchanging places.	2-11 Sorting Dominoes (Activity Card 19)
2-12 Counting Patterns on a Number Line (TM	2-12 I wo-Rule Frames and Arrows (Activity Card	2-8 Help children connect the words in a number	2-12 Counting Patterns on a Number Line (IM
219)	33)	story to the symbols in a number model.	219)
		2-9 Build on children's knowledge of the term add	
		2 10 Illustrate a name collection box by discussing	
		different names for mom	
		2-11 Use Total Physical Response routine to let	
		children rehearse the action of shuffling cards	
		Introduce the meaning of:	
		It's your turn	
		• It's my turn.	
		• Who is next?	
		• You win.	
		2-12 Introduce the term <i>rule</i> and the phrase follow	
		the rule.	

Extra Practice Activities	Unit 2 Vocabulary:	Extra Practice Activities
2-1 Playing Spinning For Money (TM 151)	addend; addition number story; arrow; arrow rule;	2-1 Playing Spinning For Money (TM 151)
2-2 Writing an Addition Number Stories (TM 157)	combinations of 10; divide; doubles; doubles facts;	2-2 Writing an Addition Number Stories (TM 157)
2-3 Finding Doubles in Literature (Activity Card 23)	equal addends; equivalent; fourths; frame; Frame	2-3 Finding Doubles in Literature (Activity Card 23)
2-4 Using Ten Frames to Make 10 (TM 169)	and Arrow Diagram; half; halves; helper fact; label;	2-4 Using Ten Frames to Make 10 (TM 169)
2-5 Near-Doubles Strategy (Activity Card 24)	making 10; name-collection box; near-doubles	2-5 Near-Doubles Strategy (Activity Card 24)
2-6 The Turn-Around Rule (Activity Card 25)	strategy; number model; number sentence; number	2-6 The Turn-Around Rule (Activity Card 25)
2-8 Looking for Doubles (Activity Card 29)	story; sum; total; trade; turn-around rule; unit box	2-8 Looking for Doubles (Activity Card 29)
2-9 One Odd Day and One Even Day (TM 201)		2-9 One Odd Day and One Even Day (TM 201)
2-10 Creating Name-Collection Boxes (Activity		2-10 Creating Name-Collection Boxes (Activity
Card 32).		Card 32).
2-11 Practicing with Name That Number (TM 313)		2-11 Practicing with Name That Number (TM 313)
2-12 Frames-and-Arrows Problems (Activity Card		2-12 Frames-and-Arrows Problems (Activity Card
34)		34)

Course Title: Everyday Mathematics 4 – Grade 2

Unit #: UNIT 3 OVERVIEW

Unit Title: More Fact Strategies

Unit Description and Objectives:

- 3-1 Using Addition Strategies Day 1 Students solve an open response problem using their own fact strategies. Day 2 The class discuss selected drawings and explanations, and children revise their work. Students will add and subtract within 20.
- 3-2 Strategies from Addition: Think Addition Students write subtraction number stories and generate related addition and subtraction facts. Students will represent and solve problems involving addition and subtraction. Students will add and subtract within 20. Students will use place value understanding and properties of operations to add and subtract.
- 3-3 Fact Families Students generate fact families using related numbers on Fact Triangles. Students will add and subtract within 20. Students will use place value understanding and properties of operations to add and subtract.
- 3-4 *Playing Salute!* Students play *Salute!* to find missing addends. Students will add and subtract within 20. Students will understand place value. Students will use place value understanding and properties of operations to add and subtract.
- 3-5 **Subtraction Strategies: Counting Up and Counting Back** Students discuss and use the counting-up and counting-back strategies for subtraction. Students will add and subtract within 20.
- 3-6 -0 and -1 Fact Strategies and Subtraction Top-It Students explore the -0 and -1 fact strategies and play Subtraction Top-It. Students will add and subtract within 20. Students use place value understanding and properties of operations to add and subtract.
- 3-7 "What's My Rule?" Students find missing numbers and missing rules in "What's My Rule?" problems. Students will represent and solve problems involving addition and subtraction. Students use place value understanding and properties of operations to add and subtract.
- 3-8 Using Doubles to Subtract Students use doubles to solve subtraction facts. Students will represent and solve problems involving addition and subtraction. Students will add and subtract within 20.
- 3-9 *Going-Back-Through-10 Strategy for Subtraction* Students use the going-back-through-10 strategy for subtraction. Students will represent and solve problems involving addition and subtraction. Students will add and subtract within 20. Students will relate addition and subtraction to length.
- 3-10 Going-Up-Through-10 Strategy for Subtraction Students use the going-up-through-10 strategy for subtraction. Students will add and subtract within 20. Students will relate addition and subtraction to length.
- 3-11 *Exploring Rectangles, Fact Wheels, and Coins* Students cover rectangles with squares, practice addition and subtraction facts on a fact wheel, and make coin stamp booklets. Students will add and subtract within 20. Students will work with time and money. Students will reason with shapes and their attributes.
- 3-12 Unit 3 Progress Check Day 1 Administer the Unit Assessments Day 2 Administer the Open Response Assessment

Essential Questions and Enduring Understandings:

Essential Questions:	<u>Enduring</u> <u>Understandings/Generalizations</u> Students will understand <u>that</u> :	Guiding Questions
1. What are strategies for finding subtraction facts?	 Addition and subtraction have an inverse relationship. The inverse relationship between addition and subtraction can be used to find subtraction facts; every subtraction fact has a related addition fact. 	 1.1 How can addition help us know if we subtracted correctly? 1.2 How can we write related addition facts? 1.3 How can we solve related addition facts? 1.4 How do I use fact families to help solve subtraction problems? 1.5 How can I use basic properties of addition to help me subtract? How do they relate?
2. How can I make ten to help solve subtraction facts?	 Some subtraction facts can be found by subtracting from the minuend (the larger number) an amount to get to 10 and then subtracting the amount that remains. 	2.1 What strategies help solve subtraction problems?2.2 How do I decide which operation to use to solve a problem?2.3 How do you set up a subtraction problem?

UNIT GRAPHIC ORGANIZER



CURRICULUM UNIT PLAN

Course Title/Grade:	Everyday Mathematics 4 – Grade 2			Primary Core Content Standards referenced With			Progress Indicators
Unit Number/Title:	Title: Unit 3 More Fact Strategies			2.OA.2	2.NBT	.3	2.NBT.5
Conceptual Lens:	Conceptual Lens: More Fact Strategies			2.NBT.7 2.NBT.9		.6	2.MD.8
Appropriate Time All	ocation (# of						
Days):		14 Days	2.G.2				
<u>Topics/Concepts</u> (Incl. time / # days per topic)	<u>Critical Content</u> (Students Will Know:)	<u>Skill Objectives</u> (Students Will Be Able To:)	Instructional/Learning Activities & Interdisciplinary Connections	Instructional Resources	Technology & 21 st C Skills Integration (Specify)	NJCCCS w/ CPI Reference	Evaluation/ Assessment:
In Unit 3, more fact strategies are developed, with a focus on strategies	There are a variety of strategies to	3-1 Day 1 – Solve an open response problem using their	Every lesson includes differentiation options for several groups of learners	See page 234 of Teacher's Lesson Guide for instruction materials per lesson.	Everyday Math online: <u>http://connected.mcgraw-</u> hill.com/connected/	8.1.2.A.1 8.1.2.A.4	Formative Assessments:

In Onit 3, more fact	• There are a	3-1 Day I – Solve an		Lesson Cuide for instruction	Everyday Mathonnie.	0.1.Z.A.1	Formative
strategies are developed,	variety of	open response	differentiation options for	materials per lesson	http://connected.mcgraw-	8.1.2.A.4	Assessments:
with a focus on strategies	strategies to	problem using their	several groups of learners		mil.com/connected/	04054	Math Message
for solving subtraction	build fluency	own fact strategles.	Including Readiness,	Activity Cards	0.1.0.0.1	8.1.2.E.1	Montal Math and
facts. Routines and	with	Day 2 – Discuss	Enrichment, Extra Practice	35-46	8.1.2.A.1	8.2.2.B.1	
games for practicing facts	subtraction	selected drawings and	and Beginning English		8.1.2.A.4		Fidency
are introduced. Student	facts	explanations, and	Language Learner Support.	Cordo 91 96 97	8.1.2.E.1	8.2.2.B.4	Information Boxes
learning will focus on:	 There is a 	revise work.	Refer to the second page of		- Educational	8.2.2.D.1	Use of White Board
 Operations and 	relationship	3-2 Write subtraction	each lesson for these	90, 90, 100, 101,	Lechnology: All		Questions &
Algebraic	between	number stories and	instructional learning	106, 110, 111,	students will use digital		Answers
Thinking (Add	subtraction	generate related	activities. They are also		tools to access,		 Think, Pair, Share
and subtract	and addition	addition and	listed on the following page.	Counters	manage, evaluate, and		 Home Links
within 20)	 Which 	subtraction facts.		Cubes	synthesize information		 Math Journals
Number and	counting	3-3 Generate fact families	 Learning Activities – 	Dominoes	in order to solve		 Math Masters
Operations in	strategy is	using related numbers	Follow Teacher's	6-sided dice	problems individually to		 Math Games
Base Ten (Use	more	of Fact Triangles.	Lesson Guide	 Calculator 	collaborate and to		Teacher
place value	appropriate	3-4 Play Salute! To find	Volume 1 pages 244-	 Number cards 	create and		Observation
understanding	for a given	missing addends.	321 for lesson	Class number	communicate		
and properties of	fact	3-5 Discuss and use the	activities	line	knowledge.		Summative
operations to add	 To identify 	counting-up and	 Include Math Stations 	Number-grid			Assessment(s)
and subtract)	patterns to	counting-back	to assist struggling	poster	Students will:		Lipit Progress
Unit 3 focuses on the	help solve	strategies for	and advanced	Toolkit bills	 Understand and 		Ohn Frogress Chock Solf
following topics/concepts:	problems	subtraction.	learners	Square pattern	use technology		
 Developing 	 To go back 	3-6 Explore the -0 and -1		blocks	systems		Writton
Subtraction	through 10 or	fact strategies and	Additional Literature Links:	Coin stamps	 Select and use 		
Strategies	up through	play Subtraction Top-	http://media2.k12.mhedu.com	Stamp pad	applications		
Relating Addition	10 to solve	it.	/repository/private_data/DOC/	• Stamp pau	effectively and		
and Subtraction	subtraction	3-7 Find missing numbers	50001139/59/67.pdf		productively.		Assessment
Counting	facts	and missing rules in		Scissors	 Plan strategies to 		District
Strategies for		"What's My Rule?"	Science – Every Lesson –	Paper clip	guide inquiry.		Benchmarks
Subtraction		problems.	See TM pages 24 – 37 to	Envelope	Locate, organize.		• STAR
			implement the Weather	Crayons	analyze, evaluate.		
			-	 Fact triangles 			

<u>Topics/Concepts</u> (Incl. time / # days per topic)	Critical Content (Students Will Know:)	<u>Skill Objectives</u> (Students Will Be Able To:)	Instructional/Learning Activities & Interdisciplinary Connections	Instructional Resources	<u>Technology & 21st C Skills</u> <u>Integration (Specify)</u>	NJCCCS w/ CPI Reference	Evaluation/ Assessment:
 "What's My Rule?" Using 10 as a Friendly Number 		 3-8 Use doubles to solve subtraction facts. 3-9 Use the going-back-through-10 strategy for subtraction. 3-10Use the going-up-through-10 strategy for subtraction. 3-11Cover rectangles with squares, practice addition and subtraction facts on a fact wheel, and make coin stamp booklets. 3-12Day 1 – Administer the Unit Assessments. Day 2 – Administer the Open Response Assessment. 	Routine and Temperature Routine. ELA 3.1 – 3-12 Teacher models and reviews key vocabulary terms. Essential content specific vocabulary can be found in the introductory material on the first page of every lesson Each Unit provides students with the opportunity to answer open ended response questions.	 Pennies Small plastic plate Number grid 2 in square stick- on notes Fact wheel Coins 	synthesize and ethically use information from a variety of sources and media. • Evaluate and select information sources and digital tools based on the appropriateness for specific tasks. <i>Students utilize a variety</i> of websites and videos as digital tools to analyze, synthesize and solve problems. Online daily assessment checks will provide students with the opportunity to apply and practice lesson concepts and skills. <i>In each unit, an open</i> ended response lesson provides opportunities for individuals to collaborate with planning and managing a variety of activities. They collect and analyze data to identify solutions and make informed decisions 8.2.2.B.1 8.2.2.D.1 Technology Education, Engineering, Design, Computational Thinking – Programming: All students will develop an understanding of the		 Addition and Subtraction Fact Quizzes

<u>Topics/Concepts</u> (Incl. time / # days per topic)	<u>Critical Content</u> (Students Will Know:)	<u>Skill Objectives</u> (Students Will Be Able To:)	Instructional/Learning Activities & Interdisciplinary Connections	Instructional Resources	Technology & 21 st C Skills Integration (Specify)	<u>NJCCCS w/</u> CPI Reference	Evaluation/ Assessment:
					nature and impact of technology, engineering, technological design, computational thinking and the designed world as they relate to the individual, global society, and the environment.		
					Students will be able to understand:		
					 The cultural, social, economical, and political effects of technology. The influence of technology on history. Apply the design process. 		
					Through the integration and interdisciplinary connections in each unit, students will develop the understanding that math relates to the individual and clobal society		
					Activity cards and enrichment activities provide a variety of options for developing computational strategies.		

Unit Modifications for Special Population Students:

Struggling Learners	Gifted and Talented Students (Challenge Activities)	English Language Learners	Special Education Students		
Struggling Learners Readiness Activities, Extra Practice Activities, Differentiation Support *See Unit 3 Differentiating Lesson Activities online resource for differentiation support for children who need more scaffolding. http:// connected.mcgraw-hill.com Readiness Activities 3-2 Writing Domino Facts (TM 255) 3-3 Modeling Subtraction Facts with Counters (Activity Card 37) 3-4 Playing Penny Plate (TM 267) 3-5 Playing The Difference Game (TM 273) 3-6 Using Number Lines for Subtraction (TM 279) 3-7 Eisbing for the Rule (TM 285)	Enrichment 3-2 Exploring Dice Subtraction (Activity Card 35) 3-3 Finding Subtraction Mystery Numbers (Activity Card 38) 3-4 Missing Addends (Activity Card 39) 3-5 Playing The Number-Grid Difference Game (TM 273) 3-6 Counting Up to Solve Subtraction Problems	English Language Learners Vocabulary, Readiness Activities, Extra Practice Activities, Differentiation Support *See Unit 3 Differentiating Lesson Activities online resource for differentiation support for children who need more scaffolding. http:// connected.mcgraw-hill.com *See Readiness Activities and Extra Practice Activities 3-2 Use familiar objects to make up stories for given number models. 3-3 Introduce the term fact families. 3-4 Introduce the roles played by the dealer and the players in the game Salutel By modeling	Special Education Students Readiness Activities, Extra Practice Activities, Differentiation Support *See Unit 3 Differentiating Lesson Activities online resource for differentiation support for children who need more scaffolding. http:// connected.mcgraw-hill.com Readiness Activities 3-2 Writing Domino Facts (TM 255) 3-3 Modeling Subtraction Facts with Counters (Activity Card 37) 3-4 Playing Penny Plate (TM 267) 3-5 Playing The Difference Game (TM 273) 3-6 Using Number Lines for Subtraction (TM 279) 3-7 Eisping for the Rule (TM 285)		
 3-7 Fishing for the Rule (TM 285) 3-8 Playing <i>Roll and Record Doubles</i> (TM 293) 3-9 Subtracting with the Friendly Number 10 (TM 299) 3-10Finding Missing Addends (TM 305) 3-11Sorting and Counting Coins (TM 311) 	 3-6 Counting Up to Solve Subtraction Problems (TM 279) 3-7 Working with Even Numbers (Activity Card 41) 3-8 Subtracting Larger Numbers with Doubles (TM 293) 3-9 Going Back Through 100 (TM 299) 3-10Writing a Going-Through-10 Subtraction Story (TM 305) 3-11 Making Change (TM 311) 	 the players in the game <i>Salute!</i> By modeling the actions as you name the role and display the words in writing. 3-5 Provide opportunities for choral counting in which children count up and count back as you move your hand forward and backward along a number line or number grid. 3-6 Review the everyday meanings of <i>same</i> and <i>different</i>. 3-7 Introduce the mathematical meaning of the word <i>table</i>. 3-8 Demonstrate the concept of <i>related facts</i> nonverbally using number cards. 3-9 Demonstrate the concept of friendly numbers. Show a number sentence and demonstrate using 10 as a friendly number. 3-10Use a cut-out number line to help English Learners understand using 10 as a "breaking point". 3-11Introduce the word <i>overlap</i> by showing two stick-on notes that are overlapping. 	 3-7 Fishing for the Rule (TM 285) 3-8 Playing <i>Roll and Record Doubles</i> (TM 293) 3-9 Subtracting with the Friendly Number 10 (TM 299) 3-10Finding Missing Addends (TM 305) 3-11Sorting and Counting Coins (TM 311) 		
 Extra Practice 3-2 Practicing Facts with Dominoes (Activity Card 36) 3-3 Making Fact Family Chains (TM 261) 3-4 Playing Salute! (TM 267) 		Unit 3 Vocabulary: -0 facts; -1 facts; addition facts; column; counting back; counting up; diagonal; difference; double ten frame; equivalent	 Extra Practice 3-2 Practicing Facts with Dominoes (Activity Card 36) 3-3 Making Fact Family Chains (TM 261) 3-4 Playing Salute! (TM 267) 		

 3-5 Subtraction Strategies with Fact Triangles (Activity Card 40) 3-6 Practicing Subtraction Strategies with Fact Triangles (TM 279) 3-7 Practicing with "What's My Rule?" Tables (Activity Card 42) 	names; fact family; related facts; Fact Triangle; fact wheel; Facts Table; friendly number; function machine; going back though 10, going up through 10; input; output: making 10; missing addend; near	 3-5 Subtraction Strategies with Fact Triangles (Activity Card 40) 3-6 Practicing Subtraction Strategies with Fact Triangles (TM 279) 3-7 Practicing with "What's My Rule?" Tables (Activity Card 42)
3-8 Using Doubles to Subtract (TM 293)	doubles; rectangle; row; square;	3-8 Using Doubles to Subtract (TM 293)
3-9 Playing Subtraction Top-it (TM 299)	subtraction facts; subtraction number	3-9 Playing Subtraction Top-it (TM 299)
3-10Playing Fact Games (TM 305)	story; think-addition strategy; "What's My	3-10Playing Fact Games (TM 305)
3-11Playing Spinning for Money (TM 311)	Rule?"	3-11Playing Spinning for Money (TM 311)

Course Title: Everyday Mathematics 4 – Grade 2

Unit #: UNIT 4 OVERVIEW

Unit Title: Place Value and Measurement

Unit Description and Objectives:

- 4-1 Clocks and Telling Time Students tell time to nearest hour and half hour. Students will work with time and money.
- 4-2 Telling Time to the Nearest 5 Minutes Students tell time to the nearest 5 minutes. Students will understand place value. Students will work with time and money.
- 4-3 A.M. and P.M. Students tell time using A.M. and P.M. Students will work with time and money.
- 4-4 Numeration and Place Value Students discuss place value and represent 3-digit numbers using base-10 blocks and expanded form. Students will understand place value.
- 4-5 Using Place Value to Compare Numbers Students use place-value and expanded form to compare 3-digit numbers. Student will understand place value.
- 4-6 Using Base-10 Blocks to Show a Number Day 1 Students make sense of a 3-digit number represented by base-10 blocks by making trades or counting. Day 2 – The class analyzes explanations and drawings, and children revise their work. Students will understand place value.
- 4-7 Playing Target Students use base-10 blocks to model addition and subtraction of multi-digit numbers. Students will understand place value. Students will use place value understanding and properties of operations to add and subtract.
- 4-8 How Big is a Foot? Students measure objects with a foot-long foot. Students will measure and estimate lengths in standard units. Students will represent and interpret data.
- 4-9 The Inch- Students are introduced to the inch as a standard unit of length. Students will measure and estimate lengths in standard units. Students will represent and interpret data.
- 4-10The Centimeter Students are introduced to the centimeter as a standard unit of length. Students will measure and estimate lengths in standard units.
- 4-11 Matching Facts with Strategies, Measuring a Path, Exploring Arrays Students math subtraction facts with strategies, measure a path in inches and centimeters, and explore arrays. Students will add and subtract within 20. Students will work with equal groups of objects to gain foundations for multiplication. Students will use place value understanding and properties of operations to add and subtract. Students will measure and estimate lengths in standard units.
- 4-12 Unit 4 Progress Check Day 1 Administer the Unit Assessment Day 2 Administer the Cumulative Assessment

Essential Questions and Enduring Understandings:

Essential Questions:	Enduring	Guiding Questions
	Understandings/Generalizations	
	Students will understand <u>that</u> :	
1. How can numbers to 100 be shown and	1. In a two-digit number, the tens digit tells how	1.1 How does the position of a digit in a number affect
compared?	many groups of ten and the ones digit tells the	its value?
	number of ones.	1.2 How can numbers be expressed, ordered and compared?
		1.3 What strategies can be used to continue a numerical sequence?
2. What number patterns are helpful in reading and writing numbers to 1,000?	2. Numbers may be composed, decomposed and represented in a variety of ways such as base ten	2.1 How can the position of a digit in a number affect its value?
	blocks, diagrams, number lines, and expanded form	2.2 How can numbers be expressed, ordered and compared?
		2.3 How are place value patterns repeated in large numbers?
		2.4 How can large numbers be expressed, ordered and compared?
3. How can clocks show data and answer	3. Time can be given to the nearest five minutes.	3.1 What tools do we use to measure time?
questions?	Time can be expressed using different units that are related to each other. A.M. and P.M. are used	3.2 What units do we use to measure time?
		3.3 What are the different ways we can read/say the
	to designate certain time periods.	time?
		3.4 What does telling time to the nearest five minutes mean?
		3.5 How can counting by five help us to determine time in an hour?
		3.6 How can we determine the number of hours in a day?
4. How can we choose appropriate tools and use	4. The length of any object can be used as a	4.1 How do we decide on the appropriate tool for
them to measure? Why do we need to be able to	measurement unit for length, but a standard unit,	measurement?
estimate a measurement, and how do we know it	such as an inch or centimeter, is always the	4.2 How do we use a measuring tool correctly?
is reasonable?	same length.	4.3 How can we decide on appropriate units of measurement?
		4.4 Why is it important for us to know how to measure using different units of measurement?
		4.5 Why do we need to be able to estimate a
		measurement or value?
		4.6How can we tell if an estimate is reasonable?

UNIT GRAPHIC ORGANIZER



CURRICULUM UNIT PLAN

Course Title/Grade:	Everyday Mathematic	s 4 - Grade 2	Prima	ry Core Content Standa	ards referenced With	Cumulative	Progress Indicators
Unit Number/Title:	Unit 4 / Place Value a	nd Measure	2.MD.1	2.MD.2	2 2.MD.	.3	2.MD.7
Conceptual Lens:	Place Value and Mea	sure	2.MD.9	2.NBT	.1 2.NB	Г.2	2.NBT.3
Appropriate Time All	ocation (# of						
Days):		14 days	2.NBT.	5 2.NB1	Г.7 2.OA.	2	2.0A.4
,							
Topics/Concepts	Critical Content	Skill Objectives	Instructional/Learning Activities	Instructional Pasauroos	Technology & 21st C Skills	NJCCCS w/	Evoluction / Assessment.
(Incl. time / # days per topic)	(Students Will Know:)	(Students Will Be Able To:)	& Interdisciplinary Connections		Integration (Specify)	CPI Reference	Evaluation/Assessment.
Unit 4 extends students' understanding of place value, which provides a foundation for the development of strategies for fluently adding and subtracting multi-digit numbers. Student learning will focus on: • Number of Operations in Base Ten (Understand Place Value) • Measurement and Data (Measure and estimate lengths in standard units. Work with time and money.)	 Analog clocks are clocks with hands Digital clocks display time by showing the numbers of hours and minutes separated by a colon The abbreviations A.M. and P.M. are used to indicate whether a time occurs during the first or second 12-hour period of the day Place value is used to compare two numbers Place value exchanges can 	 4-1 Tell time to nearest hour and half hour. 4-2 Tell time to the nearest 5 minutes. 4-3 Tell time using A.M. and P.M. 4-4 Discuss place value and represent 3-digit numbers using bse-10 blocks and expanded form. 4-5 Use place-value and expanded form to compare 3-digit numbers. 4-6 Day 1 – Make sense of a 3-digit number represented by base- 10 blocks by making trades or counting. Day 2 – Analyze explanations and 	Every lesson includes differentiation options for several groups of learners including Readiness, Enrichment, Extra Practice and Beginning English Language Learner Support. Refer to the second page of each lesson for these instructional learning activities. They are also listed on the following page. • Learning Activities – Follow Teacher's Lesson Guide Volume 1 pages 322- 409 for lesson activities • Include Math Stations to assist struggling and advanced	See page 342 of Teacher's Lesson Guide for instruction materials per lesson. Activity Cards 47 - 63 Toolkit clock Brads Fact Triangles Counters Number cards Slates 5 minute clock Scissors Number grid poster Index cards Colored pencils Construction paper Base-10 blocks Glue Quick Look Cards 82, 86, 92, 111, 440 or ed 400	Everyday Math online: http://connected.mcgraw- hill.com/connected/ 8.1.2.A.1 8.1.2.A.4 8.1.2.E.1 – Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually to collaborate and to create and communicate knowledge. Students will: • Understand and	8.1.2.A.1 8.1.2.A.4 8.1.2.E.1 8.2.2.B.1 8.2.2.B.4 8.2.2.D.1	Formative Assessments:• Math Message• Math Message• Mental Math & Fluency• Math Boxes• Use of White Board• Questions & Answers• Think, Pair, Share• Home Links• Math Journals• Math Masters• Math Games• Teacher ObservationSummative Assessment(s)• Unit Progress
Unit 4 focuses on the following Topics/Concepts: • Telling Time • Place Value • Length Measurement	be used to create new representations of numbers	 drawings, and children revise their work. 4-7 Use base-10 blocks to model addition and subtraction multi-digit numbers. 4-8 Measure objects with a foot-long foot. 4-9 Introduce the inch as a standard unit of length. 	learners Science – Every Lesson – See TM pages 24 – 37 to implement the Weather Routine and Temperature Routine. ELA 4-1 – 4-12	 112, and 120 1 inch square pattern blocks 6 sided dice Half-sheet paper 12 inch ruler 10 centimeter ruler Tape measure Cubes Masking tape Small objects to measure 	 use technology systems Select and use applications effectively and productively. Plan strategies to guide inquiry. Locate, organize, analyze, evaluate, 		Check – Self Assessment, Written Assessment and Open Response Assessment District Benchmarks STAR

<u>Topics/Concepts</u> (Incl. time / # days per topic)	<u>Critical Content</u> (Students Will Know:)	<u>Skill Objectives</u> (Students Will Be Able To:)	Instructional/Learning Activities & Interdisciplinary Connections	Instructional Resources	<u>Technology & 21st C Skills</u> <u>Integration (Specify</u>)	NJCCCS w/ CPI Reference	Evaluation/ Assessment:
		 4-10Introduce the centimeter as a standard unit of length. 4-11Match subtraction facts with strategies, measure a path in inches and centimeters, and explore arrays. 4-12Complete Unit Assessment 	 Teacher models and reviews key vocabulary terms. Essential content specific vocabulary can be found in the introductory material on the first page of every lesson Each Unit provides students with the opportunity to answer open ended response questions. 		 synthesize and ethically use information from a variety of sources and media. Evaluate and select information sources and digital tools based on the appropriateness for specific tasks. 		Addition and Subtraction Fact Quizzes
			ELA 4-3 – TM 349 <i>Tuesday</i> by David Wiesner (Clarion, 1991). Students will create their own adventures with a sequence of events at 8:00 pm continue through the am.		Students utilize a variety of websites and videos as digital tools to analyze, synthesize and solve problems. Online daily assessment checks will provide students with the opportunity to apply and practice lesson concepts and skills.		
			 ELA 4-8 – TM 383. Read How Big Is a Foot? by Rolf Myler (Dell Yearling, 1991). Students will discuss why the bed in the story did not turn out to be the right size. Additional Literature Links: http://media2.k12.mhedu.com 		In each unit, an open ended response lesson provides opportunities for individuals to collaborate with planning and managing a variety of activities. They collect and analyze data to identify solutions and make informed decisions		
			/repository/private_data/DOC/ 50001139/59/67.pdf		8.2.2.B.1 8.2.2.B.4 8.2.2.D.1 Technology Education, Engineering, Design, Computational Thinking – Programming: All students will develop an understanding of the		

<u>Topics/Concepts</u> (Incl. time / # days per topic)	<u>Critical Content</u> (Students Will Know:)	<u>Skill Objectives</u> (Students Will Be Able To:)	Instructional/Learning Activities & Interdisciplinary Connections	Instructional Resources	Technology & 21 st C Skills Integration (Specify)	<u>NJCCCS w/</u> CPI Reference	Evaluation/ Assessment:
					nature and impact of technology, engineering, technological design, computational thinking and the designed world as they relate to the individual, global society, and the environment.		
					Students will be able to understand:		
					 The cultural, social, economical, and political effects of technology. The influence of technology on history. Apply the design process. 		
					Through the integration and interdisciplinary connections in each unit, students will develop the understanding that math relates to the individual and global society		
					Activity cards and enrichment activities provide a variety of options for developing computational strategies.		

Unit Modifications for Special Population Students:

Struggling Learners	Gifted and Talented Students	English Language Learners	Special Education Students
Readiness Activities, Extra Practice Activities,	Enrichment	Vocabulary, Readiness Activities, Extra Practice	Readiness Activities, Extra Practice Activities,
Differentiation Support		Activities, Differentiation Support	Differentiation Support
*See Unit 4 Differentiating Lesson Activities online		*See Unit 4 Differentiating Lesson Activities online	*See Unit 4 Differentiating Lesson Activities online
resource for differentiation support for children who		resource for differentiation support for children who	resource for differentiation support for children who
need more scaffolding.		need more scaffolding.	need more scaffolding.
http:// connected.mcgraw-hill.com		http:// connected.mcgraw-hill.com	http:// connected.mcgraw-hill.com
 Readiness Activities 4-1 Using an Hour-Hand-Only Clock (TM 335) 4-2 Illustrating Daily Activities (TM 343) 4-3 Sorting Before- and After- Lunch Activities (TM 349) 4-4 Counting Practice (TM 355) 4-5 Use Base-10 Blocks to Build and Write Numbers (TM 361) 4-7 Representing 2-Digit Numbers (TM 375) 4-8 Measuring Objects More or Less than One Foot Long (TM 381) 4-9 Measuring Length with Square Pattern Blocks (TM 387) 4-10Measuring with Centimeter Cubes (TM 393) 4-11Measuring Length Two Ways (TM 399) 	 Enrichment Activities 4-1 Solving Time Problems (TM 335) 4-2 Listing My Activities (TM 343) 4-3 Writing a P.M. to A.M. Story (Activity Card 49) 4-4 Creating 3-Digit Numbers (Activity Card 50) 4-5 Finding Mystery Numbers (Activity Card 52) 4-7 Playing <i>Target</i> to 200 (TM 375) 4-8 Estimating and Measuring with the Foot-Long Foot (Activity Card 54) 4-9 Estimating and Measuring (Activity Card 56) 4-10Estimating with Centimeters (Activity Card 58) 4-11Exploring Length Units (TM 399) 	 *See Readiness Activities and Extra Practice Activities 4-1 Display a cartoon-like clock face with facial features and clock hands with human-looking hand at the end to introduce the terms <i>clock</i> <i>face</i> and <i>hands of the clock</i> 4-2 Model length with hand gestures while using the word <i>long</i> and <i>short</i> as a way to introduce the <i>long minute hand</i> and the <i>short minute</i> <i>hand</i>. 4-3 Introduce the terms A.M. and P.M. in reference to activities with which all children are familiar. Show pictures of typical morning and afternoon activities. 4-4 Link the names of base-10 blocks to familiar everyday items to reinforce the description of their shapes. 4-5 Display visuals showing an example of each base-10 block along with its name. 4-7 Introduce the term <i>target</i> by showing and discussing sports-related pictures, such as a soccer net or a finish line. 4-8 Display the foot-long foot visual, a foot ruler, and pictures of feet. 4-9 Practice using the singular and plural forms of the word foot. 4-10To help children understand that the term <i>centimeter</i> is a unit of measure, use the statements that first name the object and then indicate the measure. 	 Readiness Activities 4-1 Using an Hour-Hand-Only Clock (TM 335) 4-2 Illustrating Daily Activities (TM 343) 4-3 Sorting Before- and After- Lunch Activities (TM 349) 4-4 Counting Practice (TM 355) 4-5 Use Base-10 Blocks to Build and Write Numbers (TM 361) 4-7 Representing 2-Digit Numbers (TM 375) 4-8 Measuring Objects More or Less than One Foot Long (TM 381) 4-9 Measuring Length with Square Pattern Blocks (TM 387) 4-10Measuring with Centimeter Cubes (TM 393) 4-11Measuring Length Two Ways (TM 399)
		of things, or the objects themselves, that are identical matches, such as socks.	

 Extra Practice Activities 4-1Telling and Writing Time (Activity Card 47) 4-2 Telling and Writing Time to 5 Minutes (Activity Card 48) 4-3 Sequencing A.M. and P.M. Activities (TM 349) 4-4 Building and Writing Numbers (Activity Card 51) 4-5 <i>The Digit Game</i> with Symbols (Activity Card 53) 4-7 Practicing <i>Target</i> to 50 (TM 375) 4-8 Measuring Lengths of String (Activity Card 55) 4-9 Measuring with Square Pattern Blocks and a Ruler (Activity Card 57) 4-10Measure with Centimeters (Activity Card 59) 4-11Drawing and Measuring a Crooked Path (Activity Card 63) 	Unit 4 Vocabulary: 24-hour timeline; A.M.; P.M.; analog clock; Base-10 blocks; centimeter; cube; flat; long; digital clock; digit; estimate; expanded form; foot; hour; hour hand; inch; is greater than (>); is less than (<); metric system; minute; minute hand; represent; ruler; standard unit; U.S. customary system	 Extra Practice Activities 4-1Telling and Writing Time (Activity Card 47) 4-2 Telling and Writing Time to 5 Minutes (Activity Card 48) 4-3 Sequencing A.M. and P.M. Activities (TM 349) 4-4 Building and Writing Numbers (Activity Card 51) 4-5 <i>The Digit Game</i> with Symbols (Activity Card 53) 4-7 Practicing <i>Target</i> to 50 (TM 375) 4-8 Measuring Lengths of String (Activity Card 55) 4-9 Measuring with Square Pattern Blocks and a Ruler (Activity Card 57) 4-10Measure with Centimeters (Activity Card 59) 4-11Drawing and Measuring a Crooked Path (Activity Card 63)
---	--	---

Course Title: Everyday Mathematics 4 – Grade 2

Unit #: UNIT 5 OVERVIEW

Unit Title: Addition and Subtraction

Unit Description and Objectives:

- 5-1 Playing Beat the Calculator Students play Beat the Calculator to develop fact power by using mental strategies to add two 1-digit numbers. Students will add and subtract within 20.
- 5-2 Using Coins to Buy Things Students review coin equivalencies and make different combinations of coins for the same amount of money. Students will understand place value. Students will work with time and money.
- 5-3 **Counting Up with Money** Students find coin combinations to pay for items and make change by counting up. Students will understand place value. Students will use place value understanding and properties of operations to add and subtract. Students will work with time and money.
- 5-4 **Coin Calculations** Students make purchases and practice making change. Students will understand place value. Students will use place value understanding and properties of operations to add and subtract. Students will work with time and money.
- 5-5 Exploring Arrays, Time, and Shapes Students make arrays, match clock faces to digital notation, and construct shapes on geoboards. Students will work with equal groups of objects to gain foundations for multiplication. Students will work with time and money. Students will reason with shapes and their attributes.
- 5-6 Mentally Adding and Subtracting 10 and 100 Students develop strategies for mentally adding and subtracting 10 and 100. Students will understand place value. Students will use place value understanding and properties of operations to add and subtract.
- 5-7 **Open Number Lines** Students use open number lines as a tool for solving number stories. Students will represent and solve problems involving addition and subtraction. Students will use place value understanding and properties of operations to add and subtract. Students will relate addition and subtraction to length.
- 5-8 Change-to-More Number Stories Students solve change-to-more number stories. Students will represent and solve problems involving addition and subtraction. Students will use place value understanding and properties of operations to add and subtract.
- 5-9 Parts-and-Total Number Stories Students solve parts-and-total number stories. Students will represent and solve problems involving addition and subtraction. Students will add and subtract within 20. Students will use place value understanding and properties of operations to add and subtract.
- 5-10 Change Number Stories Students solve change number stories involving temperature. Students will represent and solve problems involving addition and subtraction. Students will understand place value. Students will use place value understanding and properties of operations to add and subtract.
- 5-11 Adding Multidigit Numbers Day 1 Students complete an open response problem by solving an addition problem using two different strategies. Day 2 The class discusses selected strategies, and children revise their work. Students will use place value understanding and properties of operations to add and subtract. Students will work with time and money.
- 5-12Unit 5 Progress Check Day 1 Administer the Unit Assessments. Day 2 Administer the Open Response Assessment.
| Essential Questions: | Enduring | Guiding Questions | |
|---|--|---|--|
| | Understandings/Generalizations
Students will understand that: | | |
| 1. How can I use addition and subtraction to solve problems? | 1. Addition and subtraction are related
operations that we use in everyday
problem solving. | 1.1 What strategies help solve addition and subtraction problems? 1.2 What is the relationship between addition and subtraction? 1.3 How can knowing my facts to 20 make math easier? 1.4 How do I know when to add or subtract? 1.5 How do I use addition and subtraction to find the missing value? 1.6 Why is knowing basic facts important in solving 2-digit math problems? 1.7 Why is understanding place value important in solving 2-digit problems? 1.8 How can I use 2-digit addition and subtraction to find a missing value? | |
| 2. Why is it important to understand money
in our everyday life? | 2. The amount of money can often be represented using different combinations of coins and bills. Money amounts can usually be counted in different ways. When counting money, it is usually easier to start with the coin or bill with the greatest value. | 2.1 How does sorting and grouping help to count money? 2.2 Why is it important to be able to count amounts of money? 2.3 What strategies help us count money? 2.4 What symbols do I use when writing different amounts of money? 2.5 What are different ways to represent an amount of money? 2.6 How does knowing how to count money help us make change? 2.7 How do you make sure you are given the correct change? 2.8 How do you know if you have enough money to buy something? | |



Course Title/Grade:	Everyday Mathematic	cs 4 - Grade 2	Prir	nary Core Content Stand	ards referenced With	Cumulative	Progress Indicators
Unit Number/Title:	Unit 5 / Addition and	Subtraction					
Conceptual Lens:	Addition and Subtract	tion					
Appropriate Time All	ocation (# of						
Days):	(14 days					
		i					
Topics/Concepts	Critical Content	Skill Objectives	Instructional/Learning Activit	ies Instructional Resources	Technology & 21st C Skills	NJCCCS w/	Evaluation/ Assessment:
(Incl. time / # days per topic)	(Students Will Know:)	(Students Will Be Able To:)	& Interdisciplinary Connection	ns	Integration (Specify)	<u>CPI Reference</u>	
In Unit 5, addition and subtraction problems are reviewed in the context of money and number stories. Mental strategies for adding and subtracting 10 and 100 are developed. Student learning will focus on: • Operations and Algebraic Thinking (Represent and solve problems involving addition and subtraction) • Number and Operations in Base Ten (Use place value understanding and properties of operations to add and subtract) • Measurement and Data (Work with time and money)	 Fact power is critical for problem solving Coins and paper money have different values Addition and subtraction strategies are used when counting coins and making change Open number lines are used as an addition and subtraction strategy Addition or subtraction is used to solve Change-to-more number stories and Parts-and- Total number stories The unknown can change in a 	 5-1 Play Beat the Calculator to develop fact power by using mental strategies to add two 1-digit numbers. 5-2 Review coin equivalencies and make different combinations of coins for the same amount of money. 5-3 Find coin combinations to pay for items and make change by counting up. 5-4 Make purchases and practice making change. 5-5 Make arrays, match clock faces to digital notation, and construct shapes on geoboards. 5-6 Develop strategies for mentally adding and subtracting 10 and 100. 5-7 Use open number 	Every lesson includes differentiation options for several groups of learners including Readiness, Enrichment, Extra Practice and Beginning English Language Learner Support Refer to the second page of each lesson for these instructional learning activities. They are also listed on the following page • Learning Activities Follow Teacher's Lesson Guide Volume 2 pages 43 - 519 for lesson activities • Include Math Station to assist struggling and advanced learners Additional Literature Links: http://media2.k12.mhedu.co /repository/private_data/DO	See page 434 of Teacher's Lesson Guide for instruction materials per lesson. Activity Cards 64 – 76 Calculator Mumber cards Inch ruler Slate Paper triangle Dominoes Number grid Scissors Toolkit coins Centimeter ruler Class Data Pad Large paper clip Scissors 6-sided dice Base-10 blocks Centimeter cubes Geoboards Rubber bands Pattern blocks Envelope Straight edge	Everyday Math online: http://connected.mcgraw- hill.com/connected/ 8.1.2.A.1 8.1.2.A.4 8.1.2.E.1 - Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually to collaborate and to create and communicate knowledge. Students will: • Understand and use technology systems • Select and use applications effectively and productively.	8.1.2.A.1 8.1.2.A.4 8.1.2.E.1 8.2.2.B.1 8.2.2.B.4 8.2.2.D.1	Formative Assessments: Math Message Mental Math & Fluency Math Boxes Use of White Board Questions & Answers Think, Pair, Share Home Links Math Journals Math Journals Math Masters Math Games Teacher Observation Summative Assessment(s) Unit Progress Check – Self Assessment, Written Assessment and Open Response Assessment
Unit 5 focuses on the following Topics/Concepts:	number story	solving number stories.	Science – Every Lesson - See TM pages 24 – 37 to	- Class Number Line	 Plan strategies to guide inquiry. Locate, organize, analyze, evaluate, 		BenchmarksSTAR

Topics/ConceptsCritical Content(Incl. time / # days per topic)(Students Will Know	Skill Objectives (Students Will Be Able To:)	Instructional/Learning Activities & Interdisciplinary Connections	Instructional Resources	<u>Technology & 21st C Skills</u> <u>Integration (Specify</u>)	NJCCCS w/ CPI Reference	Evaluation/ Assessment:
 Fact Power Money Open Number Lines Number Stories and Number Models 	 5-8 Solve change-to-more number stories. 5-9 Solve parts-and-total number stories. 5-10Solve change number stories involving temperature. 5-11Day 1 – Complete an open response problem by solving an addition problem using two different strategies. Day 2-Discuss selected strategies, and revise work. 5-12Unit 5 Progress Check 	 implement the Weather Routine and Temperature Routine. ELA 5-1 – 5-12 Teacher models and reviews key vocabulary terms. Essential content specific vocabulary can be found in the introductory material on the first page of every lesson Each Unit provides students with the opportunity to answer open ended response questions. Technology 5-1 TM 447. Students will play Beat the Calculator to practice fact fluency. ELA 5-2 TM 451 – Students will write money stories with money. Career Education/Consumer, Family & Life Skills 5-2 TM 451 – Students will practice buying and selling using exact change. Career Education/Consumer, Family & Life Skills 5-3 TM 457 – 460 – Students will practice making change. Career Education/Consumer, Family & Life Skills 5-4 TM 	 Number-Grid poster Crayon Quick Look Cards 96, 108, 117 Shopping bag Number line Fact Triangles Craft sticks Class Thermometer Poster Glue 	synthesize and ethically use information from a variety of sources and media. • Evaluate and select information sources and digital tools based on the appropriateness for specific tasks. Students utilize a variety of websites and videos as digital tools to analyze, synthesize and solve problems. Online daily assessment checks will provide students with the opportunity to apply and practice lesson concepts and skills. In each unit, an open ended response lesson provides opportunities for individuals to collaborate with planning and managing a variety of activities. They collect and analyze data to identify solutions and make informed decisions 8.2.2.B.1 8.2.2.B.1 8.2.2.B.4 8.2.2.D.1 Technology Education, Engineering, Design, Computational Thinking – Programming: All students will develop an upderstanding of the		Addition and Subtraction Fact Quizzes

<u>Topics/Concepts</u> (Incl. time / # days per topic)	<u>Critical Content</u> (Students Will Know:)	<u>Skill Objectives</u> (Students Will Be Able To:)	Instructional/Learning Activities & Interdisciplinary Connections	Instructional Resources	Technology & 21 st C Skills Integration (Specify)	NJCCCS w/ CPI Reference	Evaluation/ Assessment:
(Incl. time / # days per topic)	(Students Will Know:)	(Students Will Be Able To:)	 <u>Activities</u> <u>Acti</u>	Instructional Resources	Integration (Specify) nature and impact of technology, engineering, technological design, computational thinking and the designed world as they relate to the individual, global society, and the environment. Students will be able to understand: • The cultural, social, economical, and political effects of technology. • The influence of technology on history. • The influence of technology on history. • The influence of technology on history. • Apply the design process. Through the integration and interdisciplinary connections in each unit, students will develop the understanding that math relates to the individual and global society. Activity cards and enrichment activities provide a variety of	<u>CPI Reference</u>	Evaluation/ Assessment:
					options for developing computational strategies		

Unit Modifications for Special Population Students:

Struggling Learners	Gifted and Talented Students (Challenge Activities)	English Language Learners	Special Education Students
Readiness Activities, Extra Practice Activities,	Enrichment	Vocabulary, Readiness Activities, Extra Practice	Readiness Activities, Extra Practice Activities,
Differentiation Support		Activities, Differentiation Support	Differentiation Support
*See Unit 5 Differentiating Lesson Activities online		*See Unit 5 Differentiating Lesson Activities online	*See Unit 5 Differentiating Lesson Activities online
resource for differentiation support for children who		resource for differentiation support for children who	resource for differentiation support for children who
need more scattolding.		need more scattolding.	need more scatfolding.
http:// connected.mcgraw-hill.com		http:// connected.mcgraw-hill.com	http:// connected.mcgraw-hill.com
 Readiness Activities 5-1 Reviewing Fact Inventories (TM 445) 5-2 <i>Dime-Nickel-Penny Grab</i> (Activity Card 64) 5-3 Use Dice to Count Up (Activity Card 66) 5-4 Counting on the Number Grid with Coins (TM 463) 5-5 Identifying Pattern-Block Template Shapes (TM 469) 5-6 Counting by 10s on a Number Grid (TM 475) 5-7 Adding 10s and 1s (TM 481) 5-8 Showing Change on Number Lines (TM 487) 5-9 Joining Objects (TM 495) 5-10Showing Change on a Number Line (TM 501) 	 Enrichment Activities 5-1 Playing <i>Beat the Calculator</i> with Extended Facts (TM 445) 5-2 Writing Number Stories with Money (TM 451) 5-3 Solving a Coin Puzzle (TM 457) 5-4 Calculating the Value of a Name (Activity Card 68) 5-5 Working with Pattern-Block Puzzles (TM 469) 5-6 Adding and Subtracting 10s and 100s (Activity Card 72) 5-7 Using Open Number Lines with Larger Numbers (TM 481) 5-8 Writing Change-to-More Stories (Activity Card 75) 5-9 Writing Missing-Part Number Stories (Activity Card 76) 5-10Finding Changes in Temperature (TM 501) 	 *See Readiness Activities and Extra Practice Activities 5-1 Use Math Master 118 to connect developing physical power by doing pull-ups and developing fact power by practicing facts. 5-2 Demonstrate the meaning of the term <i>trade</i> as "to exchange for something equivalent." 5-3 Review polite phrases used in conversations between customers and clerks such as: Thank you. How much is that? Here is your change. You're welcome. Please. Your change is 5-4 Use a toy vending machine or a copy of Math masters TA24 to introduce the terms shown on journal page 112. 5-5 Use Total Physical Response modeling and prompts to provide experiences hearing and using the termssided shape and a shape with sides. 5-6Using the number grid and number line, model: circle the number that is 10 more, use your finger to hop from to 5-7 Show examples of "open number line" and "regular number line". 	 Readiness Activities 5-1 Reviewing Fact Inventories (TM 445) 5-2 <i>Dime-Nickel-Penny Grab</i> (Activity Card 64) 5-3 Use Dice to Count Up (Activity Card 66) 5-4 Counting on the Number Grid with Coins (TM 463) 5-5 Identifying Pattern-Block Template Shapes (TM 469) 5-6 Counting by 10s on a Number Grid (TM 475) 5-7 Adding 10s and 1s (TM 481) 5-8 Showing Change on Number Lines (TM 487) 5-9 Joining Objects (TM 495) 5-10Showing Change on a Number Line (TM 501)
		meaning of <i>change</i> as "to become different".	

	 5-9 Use role play and teacher think-aloud statements to help children construct the meaning of the term <i>total</i> to mean "quantities combined to make a desired or targeted amount". 5-10Use objects, pictures, and gestures to demonstrate the meanings of the word <i>hot</i>, <i>cold</i>, <i>cool</i>, and <i>warm</i>. 	
 Extra Practice Activities 5-1 Making a Fact-Family Chain (TM 445) 5-2 Buying and Selling (Activity Card 65) 5-3 Making Change by Counting Up (Activity Card 67) 5-4 Practicing Making Change (TM 463) 5-5 Playing <i>Clock Concentration</i> (Activity Card 70) 5-6 Adding and Subtracting 10 and 100 (Activity Card 73) 5-7 Using Open Number Lines to Add (Activity Card 74) 5-8 Solving More "Fishy" Stories (TM 487) 5-9 Solving more Parts-and-Total Stories (TM 495) 5-10Solving More Temperature-Change Stories (TM 501) 	Unit 5 Vocabulary: Addition fact; array; change diagram; change-to-less number story; change-to- more number story; degree Fahrenheit; equivalencies; fact power; mental addition; mental subtraction; open number line; parts-and-total diagram; parts-and-total number story; thermometer; total	 Extra Practice Activities 5-1 Making a Fact-Family Chain (TM 445) 5-2 Buying and Selling (Activity Card 65) 5-3 Making Change by Counting Up (Activity Card 67) 5-4 Practicing Making Change (TM 463) 5-5 Playing <i>Clock Concentration</i> (Activity Card 70) 5-6 Adding and Subtracting 10 and 100 (Activity Card 73) 5-7 Using Open Number Lines to Add (Activity Card 74) 5-8 Solving More "Fishy" Stories (TM 487) 5-9 Solving more Parts-and-Total Stories (TM 495) 5-10Solving More Temperature-Change Stories (TM 501)

UNIT OVERVIEW

Course Title: Everyday Mathematics 4 – Grade 2

Unit #: UNIT 6 OVERVIEW

Unit Title: Whole Number Operations and Number Stories

Unit Description and Objectives:

- 6-1 Representing Data: Pockets Students draw picture graphs and bar graphs to represent a data set. Students will understand place value. Students will relate addition and subtraction to length. Students will represent and interpret data.
- 6-2 **Comparison Number Stories** Students solve comparison number stories. Students will represent and solve problems involving addition and subtraction. Students will use place value understanding and properties of operations to add and subtract. Students will relate addition and subtraction to length.
- 6-3 Interpreting Number Stories Students choose diagrams to use for solving number stories. Students will represent and solve problems involving addition and subtraction. Students will use place value understanding and properties of operations to add and subtract. Students will relate addition and subtraction to length.
- 6-4 Animal Number Stories Students solve animal number stories. Students will represent and solve problems involving addition and subtraction. Students will use place value understanding and properties of operations to add and subtract. Students will relate addition and subtraction to length.
- 6-5 **Two-Step Number Stories** Students solve two-step number stories. Students will represent and solve problems involving addition and subtraction. Students will use place value understanding and properties of operations to add and subtract.
- 6-6 Recording Addition Strategies Students make ballpark estimates and invent and record their own strategies for solving addition problems. Students will use place value understanding and properties of operations to add and subtract.
- 6-7 Partial-Sums Addition, Part 1 Students use base-10 blocks to find partial sums and build readiness for partial-sums addition. Students will understand that the three digits of a three digit number represents amounts of hundreds, tens, and ones. Students will use place value understanding and properties of operations to add and subtract.
- 6-8 Partial-Sums Addition, Part 2 Students are introduced to partial-sums addition. Students will understand place value. Students will use place value understanding and properties of operations to add and subtract.
- 6-9 Subtracting with Base-10 Blocks Day 1 Students complete an open response problem. Day 2 Students compare strategies and revise their work. Students will represent and solve problems involving addition and subtraction. Students will use place value understanding and properties of operations to add and subtract.
- 6-10 Exploring Arrays, Lengths, and Shapes Students build arrays on geoboards, measure and compare lengths, and create shapes. Students will work with equal groups of objects to gain foundations for multiplication. Students will understand place value. Students will measure and estimate lengths in standard units. Students will reason with shapes and their attributes.
- 6-11 Unit 6 Progress Check Day 1 Administer the Unit Assessments. Day 2 Administer the Cumulative Assessment.

Essential Questions:	Enduring	Guiding Questions	
	Understandings/Generalizations Students will understand <u>that</u> :		
1. How can clocks, bar graphs, and pictographs be used to show data and answer questions?	 Data can be organized in a variety of ways. Pictographs make it easier to compare data. 	 1.1 What questions can be answered from a pictograph? 1.2 Why is data collected and analyzed? 1.3 How can predictions be made based on data? 1.4 How can you use a pictograph to make comparisons? 	
2. How does place value help me to better understand the base-ten number system?	2. Our place value number system makes it easy to name the number that is 10 more or 10 less than any other given number by simply adjusting the digit in the tens place.	 2.1 How do I use place value to compare two or more numbers? 2.2 How can I use 10, 100, and 1000 as benchmarks to help me estimate? 2.3 What is a number sentence and how can I use it to solve word problems? 2.4 How do we use addition to tell number stories? 	
 3. What are some ways to think about addition and subtraction? . 	3. Parts of a whole is one interpretation of addition. Addition number sentences can be used to show parts of a whole. Joining parts to make a whole is one interpretation of addition. Addition number sentences can be used to show joining parts of a whole. Separating parts from a whole and comparison are two interpretations of subtraction. Subtraction number sentences can be used to show separating parts from a hole or comparison subtraction situations.	 3.1 How do I know where to begin when solving a problem? 3.2 How does explaining my process help me to understand a problem's solution better? 3.4 How do I decide what strategy will work best in a given problem situation? 3.5 What do I do when I get stuck? 	



Course Title/Grade:	Everyday Mathematics 4 - Grade 2	Primary Core Content Standards referenced With Cumulative Progress Indicators					
Unit Number/Title:	Unit 6 / Whole Number Operations and Number Stories	2.NBT.1	2.NBT.2	2.NBT.3	2.NBT.4		
Conceptual Lens:	Whole Number Operations and Number Stories	2.NBT.5 2.NBT.7		2.NBT.9	2.OA.1 2.OA.4		
Appropriate Time All	ocation (# of						
Days):	13 days	2.MD.1 2.MD.4	2.MD.5 2.MD.6	2.MD.10	2.G.1		

<u>Topics/Concepts</u> (Incl. time / # days per topic)	<u>Critical Content</u> (Students Will Know:)	<u>Skill Objectives</u> (Students Will Be Able To:)	Instructional/Learning Activities & Interdisciplinary Connections	Instructional Resources	Technology & 21 st C Skills Integration (Specify)	NJCCCS w/ CPI Reference	Evaluation/ Assessment:
In Unit 6, students collect and display data on two different types of graphs. They are introduced to comparison number stories and two-step number stories. Student learning will focus on: • Operations and Algebraic Thinking (Represent and solve problems involving addition and subtraction) • Number and Operations in Base Ten (Use place value understanding and properties of operations to add and subtract) • Measurement and Data (Relate addition and subtraction to length) Unit 6 will focus on the following Topics/Concepts: • Data Displays • Number Stories	 Data can be collected, graphed and interpreted There is more than one type of graph to display data To solve number stories that describe comparison situations Number stories can have more than one step to solve them Partial-sums addition strategy can be used to solve addition problems 	 6-1 Draw picture graphs and bar graphs to represent a data set. 6-2 Solve comparison number stories. 6-3 Choose diagrams to use for solving number stories. 6-4 Solve animal number stories. 6-5 Solve two-step number stories. 6-6 Make ballpark estimates and invent and record their own strategies for solving addition problems. 6-7 Use base-10 blocks to find partial sums and build readiness for partial-sums addition. 6-8 Use partial-sums addition. 6-9 Day 1 - Complete an open response problem. Day 2 – Compare strategies and revise their work. 6-10Build arrays on geoboards, measure and compare lengths, and create shapes. 	Every lesson includes differentiation options for several groups of learners including Readiness, Enrichment, Extra Practice and Beginning English Language Learner Support. Refer to the second page of each lesson for these instructional learning activities. They are also listed on the following page. • Learning Activities – Follow Teacher's Lesson Guide Volume 2 pages 520 - 601 for lesson activities • Include Math Stations to assist struggling and advanced learners Science – Every Lesson – See TM pages 24 – 37 to implement the Weather Routine and Temperature Routine. ELA 6-1 – 6-11	See page 522 of Teacher's Lesson Guide for instruction materials per lesson. Activity Cards 77 – 85 Base-10 blocks 6 - sided dice Class Data Pad Number grid Number line Quick Look Cards 81, 86, 89, 96, 98, 102, 103, 109 Slate Fact Triangle Pennies or counters Tape measures Centimeter ruler Manipulatives Masking tape Index cards Number cards Colored pencils Geoboards Rubber bands Yardstick Calculator Scissors Stick-on notes Eraser Glue Large paper triangle	Everyday Math online: http://connected.mcgraw- hill.com/connected/ 8.1.2.A.1 8.1.2.A.4 8.1.2.E.1 - Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually to collaborate and to create and communicate knowledge. Students will: • Understand and use technology systems • Select and use applications effectively and productively. • Plan strategies to guide inquiry. • Locate, organize, analyze, evaluate,	8.1.2.A.1 8.1.2.A.4 8.1.2.E.1 8.2.2.B.1 8.2.2.B.4 8.2.2.D.1	Formative Assessments: Math Message Mental Math & Fluency Math Boxes Use of White Board Questions & Answers Think, Pair, Share Home Links Math Journals Math Masters Math Masters Math Games Teacher Observation Summative Assessment(s) Unit Progress Check – Self Assessment, Written Assessment and Open Response Assessment District Benchmarks STAR

<u>Topics/Concepts</u> (Incl. time / # days per topic)	Critical Content (Students Will Know:)	<u>Skill Objectives</u> (Students Will Be Able To:)	Instructional/Learning Activities & Interdisciplinary Connections	Instructional Resources	<u>Technology & 21st C Skills</u> <u>Integration (Specify</u>)	NJCCCS w/ CPI Reference	Evaluation/ Assessment:
(Incl. time / # days per topic) • Strategies for Addition	(Students Will Know:)	(Students Will Be Able To:) 6-11Unit 6 progress check	 & Interdisciplinary Connections Teacher models and reviews key vocabulary terms. Essential content specific vocabulary can be found in the introductory material on the first page of every lesson Each Unit provides students with the opportunity to answer open ended response questions. ELA 6-1 TM 533. Students will write their own number stories. ELA 6-4 TM 551. Actual Size by Steve Jenkins (Houghton Mifflin Harcourt 2011) Students will use the information from Actual Size to practice writing number stories. Science/ ELA 6-4 TM 552- 554. Students use animal heights and lengths to write and solve silly number stories. ELA 6-5 TM 557. Children will read "Band-Aids" a poem from Where the Sidewalk Ends by Shel Silverstein (HarperCollins Publishing, 2004) and solve two-step problems. Additional Literature Links: http://media2.k12.mhedu.com /repository/private_data/DOC/ 	• string	Integration (Specify)synthesize and ethically use information from a variety of sources and media.• Evaluate and select information sources and digital tools based on the appropriateness for specific tasks.Students utilize a variety of websites and videos as digital tools to analyze, synthesize and solve problems. Online daily assessment checks will provide students with the opportunity to apply and practice lesson concepts and skills.In each unit, an open ended response lesson provides opportunities for individuals to collaborate with planning and managing a variety of activities. They collect and analyze data to identify solutions and make informed decisions8.2.2.B.1 8.2.2.D.1Technology Education, Engineering, Design, Computational Thinking – Programming: All students will develop an	CPI Reference	• Addition and Subtraction Fact Quizzes
	1		00001100/00/01 put				

<u>Topics/Concepts</u> (Incl. time / # days per topic)	<u>Critical Content</u> (Students Will Know:)	<u>Skill Objectives</u> (Students Will Be Able To:)	Instructional/Learning Activities & Interdisciplinary Connections	Instructional Resources	Technology & 21 st C Skills Integration (Specify)	<u>NJCCCS w/</u> CPI Reference	Evaluation/ Assessment:
					nature and impact of technology, engineering, technological design, computational thinking and the designed world as they relate to the individual, global society, and the environment.		
					Students will be able to understand:		
					 The cultural, social, economical, and political effects of technology. The influence of technology on history. Apply the design process. 		
					Through the integration and interdisciplinary connections in each unit, students will develop the understanding that math relates to the individual and global society		
					Activity cards and enrichment activities provide a variety of options for developing computational strategies.		

Unit Modifications for Special Population Students:

Struggling Learners	Gifted and Talented Students (Challenge Activities)	English Language Learners	Special Education Students
Readiness Activities, Extra Practice Activities,	Enrichment Activities	Vocabulary, Readiness Activities, Extra	Readiness Activities, Extra Practice Activities,
Differentiation Support		Practice Activities, Differentiation Support	Differentiation Support
*See Unit 6 Differentiating Lesson Activities		*See Unit 6 Differentiating Lesson Activities	*See Unit 6 Differentiating Lesson Activities
online resource for differentiation support for		online resource for differentiation support for	online resource for differentiation support for
children who need more scaffolding.		children who need more scaffolding.	children who need more scaffolding.
http:// connected.mcgraw-hill.com		http:// connected.mcgraw-hill.com	http:// connected.mcgraw-hill.com
Readiness Activities	Enrichment Activities	*See Readiness Activities and Extra Practice	Readiness Activities
6-1 Recording Tally Marks (TM 533)	6-1 Generating Number Stories (TM 533)	Activities	6-1 Recording Tally Marks (TM 533)
6-2 Comparing Penny Amounts (TM 539)	6-2 Comparing Number Stories (TM 539)	6-1 Scaffold the following terms with visuals	6-2 Comparing Penny Amounts (TM 539)
6-3 Organizing Information (TM 545)	6-3 Writing Number Stories to Match Number	and labels: bar graph, bar, label, title,	6-3 Organizing Information (TM 545)
6-4 Using Mental Strategies (TM 551)	Models (TM 545)	picture graph, graph key.	6-4 Using Mental Strategies (TM 551)
6-5 Acting Out Two-Step Problems (TM 557)	6-4 Matching Number Models (TM 551)	6-2 Use the diagrams that appear in the	6-5 Acting Out Two-Step Problems (TM 557)
6-6 Identifying Friendly Numbers (TM 563)	6-5 Writing a Two-Step Number Story (Activity	lesson as visual models to help English	6-6 Identifying Friendly Numbers (1M 563)
6-7 Reviewing Place Value (TM 569)	Card 78)	learners understand the actions in number	6-7 Reviewing Place Value (TM 569)
6-8 Reviewing Place Value (TM 575)	6-6 Adding Strategy Posters (Activity Card 79)	Stories.	6-8 Reviewing Place Value (TM 575)
6-10Comparing Objects by Length (1M 591)	6.2 Comparing Addition Strategies (1M 509)	6.4 Help shildren understand that the words	6-TOCOMparing Objects by Length (TM 59T)
	Cord 82)	long and longth can be used to convey the	
	6-10Comparing Lengths by Body Parts (TM	same meaning: the words high and height	
	501)	can also be used for the same purposes	
	001)	6-5 Provide a template illustrating what it	
		means to use drawing words and number	
		models.	
		6-6 Introduce the expression <i>ballpark</i>	
		estimate, in the ballpark, and out of the	
		ballpark.	
		6-7 Contrast the meaning of parts, partial, and	
		whole, using the terms with teacher think-	
		aloud statements.	
		6-8 Introduce the meaning of expand by	
		demonstrating an action such as playing	
		the accordion or blowing up a balloon.	

	 6-10To scaffold the Quick Looks activity provide simple posted sentence frames, such as the following: I moved 	
	 I filled in I put together 	
 Extra Practice Activities 6-1 Making a Bar Graph (TM 533) 6-2 More Comparison Stories (TM 539) 6-3 Solving a Partner's Number Story (TM 545) 6-4 More Animal Stories (Activity Card 77) 6-5 Solving More Two-Step Problems (TM 557) 6-6 Adding 2-Digit Numbers (Activity Card 80) 6-7 Finding Partial Sums with Base-10 Blocks (Activity Card 81) 6-8 Finding Partial Sums with Base-10 Blocks (Activity Card 81) 6-10Comparing Lengths of String (TM 591) 	Unit 6 Vocabulary Ballpark estimate; bar graph; comparison diagram; comparison number story; data; difference; geoboard; graph key; partial sums; partial-sums addition; picture graph; quantity; rectangle array; tally chart; two-step number story	 Extra Practice Activities 6-1 Making a Bar Graph (TM 533) 6-2 More Comparison Stories (TM 539) 6-3 Solving a Partner's Number Story (TM 545) 6-4 More Animal Stories (Activity Card 77) 6-5 Solving More Two-Step Problems (TM 557) 6-6 Adding 2-Digit Numbers (Activity Card 80) 6-7 Finding Partial Sums with Base-10 Blocks (Activity Card 81) 6-8 Finding Partial Sums with Base-10 Blocks (Activity Card 81) 6-10Comparing Lengths of String (TM 591)

UNIT OVERVIEW

Course Title: Everyday Mathematics 4 – Grade 2

Unit #: UNIT 7 OVERVIEW

Unit Title: Whole Number Operations and Measurement Data

Unit Description and Objectives:

- 7-1 Playing Hit the Target Students practice finding differences between 2-digit numbers and multiples of 10. Students will add and subtract within 20. Students will understand place value. Students will use place value understanding and properties of operations to add and subtract.
- 7-2 Four or More Addends Day 1 Students solve an open response problem by applying place-value concepts and addition properties. Day 2 Students discuss selected solutions, and revise their work. Students will represent and solve problems involving addition and subtraction. Students will add and subtract within 20. Students will use place value understanding and properties of operations to add and subtract.
- 7-3 Playing Basketball Addition Students solve addition problems with three or more addends. Students will use place value understanding and properties of operations to add and subtract.
- 7-4 Measuring with Yards Students explore U.S. customary length units and measure to the nearest yard. Students will measure and estimate lengths in standard units.
- 7-5 Measuring with Meters Students find personal references for metric units of measure; they choose appropriate units and tools to estimate and measure lengths. Students will measure and estimate lengths in standard units.
- 7-6 Generating Data: Standing Jumps and Arm Spans Students measure lengths to the nearest centimeter and to the nearest inch. Students will measure and estimate lengths in standard units. Students will represent and interpret data.
- 7-7 Representing Data: Standing Jumps Students discuss the shortest and longest standing jumps and create a line plot for the data. Students will use place value understanding and properties of operations to add and subtract. Students will relate addition and subtraction to length. Students will represent and interpret data.
- 7-8 **Representing Data: Arm Span** Students make a frequency table and a line plot for a set of data. Students will use place value understanding and properties of operations to add and subtract. Students will represent and interpret data.
- 7-9 Exploring Shape Attributes, Graphs, and Measurements Students sort shapes, draw a picture graph, and measure body parts. Students will measure and estimate lengths in standard units. Students will represent and interpret data. Students will reason with shapes and their attributes.
- 7-10Unit 7 Progress Check Day 1 Administer the Unit Assessment Day 2 Administer the Open Response Assessment

Essential Questions:	Enduring	Guiding Questions			
	Understandings/Generalizations				
	Students will understand that:				
1. How do we gather, organize, and	1. Questions can be answered by the	1.1 Why do we need to collect data to answer			
interpret information?	collection of data.	questions?			
		1.2 What are ways to gather and record			
		information?			
		1.3 What can the questions tell us about our data?			
		1.4 How can we use data to help us understand answers to questions posed?			
2. How can we choose appropriate tools	2. The length of some objects is	2.1 How do we decide on the appropriate tool for			
and use them to measure?	measureable. The length of any object	measurement?			
	can be used as a measurement unit for	2.2 How do we use a measuring tool correctly?			
	length, but a standard unit, such as an	2.3 How can we decide on appropriate units of measurement?			
	inch or centimeter, is always the same	2.4 Why is it important for us to know how to			
	length.	measure using different units of measurement?			
		2.5 Why do we measure?			
		2.6 Why do we need standardized units of measurement?			
		2.7 How does what we measure influence how we measure?			
		2.8 How can you measure the length of an object using nonstandard units?			
		2.9 How can you use addition and subtraction to			
		solve measurement problems?			
3. Why do we need to be able to estimate a	3. An estimate is reasonable if it is close to	3.1 Why do we need to be able to estimate a			
measurement, and how do we know it is	the actual measurement.	measurement or value?			
reasonable?		3.2 How can we tell if an estimate is reasonable?			
		3.3 How exact does a measurement have to be?			



Course Title/Grade:	Everyday Mathematic	Everyday Mathematics 4 - Grade 2			Primary Core Content Standards referenced With Cumulative Progress Indicators					Progress Indicators
Unit Number/Title:	Unit 7 / Whole Numb	Jnit 7 / Whole Number Operations and Measurement and Data 2			2.OA.2	2.NBT. ²	1 2.NBT.3	2.NBT.	5 2.NBT.6	2.NBT.9
Conceptual Lens:	Whole Number Operation	Whole Number Operations and Measurement and Data		2.G.1 2.MD.1		2.MD.2	2	2.MD.3		
Appropriate Time Alle	ocation (# of									
Days):		12 days		2.MD.4		2.MD.6		2.MD.9)	2.MD.10
<u>Topics/Concepts</u> (Incl. time / # days per topic)	Critical Content (Students Will Know:)	<u>Skill Objectives</u> (Students Will Be Able To:)	Instructional/Learning & Interdisciplinary Co	<u>g Activities</u> onnections	Instructional Reso	<u>urces</u>	<u>Technology & 21st</u> <u>Integration (Sp</u>	<u>C Skills</u> ecif <u>y</u>)	NJCCCS w/ CPI Reference	Evaluation/ Assessment:
In Unit 7 addition and		7-1 Practice finding	Every lesson include	20	See page 604 of Tea	cher's	Everyday Math or	line	81241	

In Unit 7, addition and • To use multiples	7-1 Practice finding	Every lesson includes	See page 604 of Teacher's	Everyday Math online:	8.1.2.A.1	Formative
subtraction strategies are of 10 when	differences between 2-	differentiation options for	Lesson Guide for instruction	http://connected.mcgraw-	81244	Accompation
explored and are used to mentally adding	digit numbers and	several groups of learners	materiais per lesson.	hill.com/connected/	0.1.2./ \.+	Assessments.
add three or more or subtracting 2-	multiples of 10.	including Readiness,			8.1.2.E.1	Math Message
numbers. Units of yards digit numbers	7-2 Day 1 – Solve an open	Enrichment, Extra Practice	Activity Cards 86	8.1.2.A.1	822B1	Mental Math &
and meters are used to • To apply the	response problem by	and Beginning English	- 98	8.1.2.A.4	0.2.2.0.1	Fluency
measure distances. Data properties of	applying place-value	Language Learner Support.	Calculator	8.1.2.E.1	8.2.2.B.4	 Math Boxes
is collected and displayed addition when	concepts and addition	Refer to the second page of	Yardstick	- Educational	92201	 Use of White Board
in a frequency table and a solving addition	properties. Day 2 –	each lesson for these	Counters	Technology: All	0.2.2.0.1	 Questions &
line plot. Student learning problems with	Discuss selected	instructional learning	 Number cards 	students will use digital		Answers
will focus on: three or more	solutions, and revise	activities. They are also	Slate	tools to access,		 Think, Pair, Share
Number and addends	their work.	listed on the following page.	Number-grid	manage, evaluate, and		Home Links
Operation in • What to consider	7-3 Solve addition		Poster	synthesize information		 Math Journals
Base Ten (Use when selecting a	problems with three or	 Learning Activities – 	Number-grid	in order to solve		 Math Masters
place value measurement too	more addends.	Follow Teacher's	Colored pencils	problems individually to		 Math Games
understanding to measure a	7-4 Explore U.S.	Lesson Guide	 Base-10 blocks 	collaborate and to		Teacher
and properties of specific item	customary length units	Volume 2 pages 602-	 20-sided 	create and		Observation
operations to add • How to use	and measure to the	677 for lesson	polyhedral die	communicate		
and subtract) personal	nearest yard.	activities	 6-sided die 	knowledge.		Summative
Measurement measurement	7-5 Find personal	Include Math Stations	Paper clip			Assessment(s)
and Data references to	references for metric	to assist struggling		Students will:		
(Measure and estimate length	units of measure;	and advanced	Egy callol	 Understand and 		Unit Progress
estimate lengths • Data can be	choose appropriate	learners	Square pattern	use technology		Check – Self
in standard units. represented in	units and tools to			systems		Assessment,
Represent and line plots	estimate and measure	ELA 7-1 – 7-10	Tape measure	 Select and use 		
interpret data)	lengths.	Teacher models and reviews	Class Data Pad	applications		Assessment and
Unit 7 will focus on the	7-6 Measure lengths to the	key vocabulary terms.	 12-inch ruler 	effectively and		Open Response
following Topics/	nearest centimeter and	Essential content specific	 10-centimeter 	productively.		Assessment
Concepts :	to the nearest inch.	vocabulary can be found	ruler	 Plan strategies to 		District
Addition and	7-7 Discuss the shortest	in the introductory	 Path marked with 	guide inquiry.		Benchmarks
Subtraction	and longest standing	material on the first page	masking tape	Locate, organize		• STAR
Strategies		of every lesson	Meter stick	analyze, evaluate.		
		-	Tape measure	,,,,		

<u>Topics/Concepts</u> (Incl. time / # days per topic)	<u>Critical Content</u> (Students Will Know:)	<u>Skill Objectives</u> (Students Will Be Able To:)	Instructional/Learning Activities & Interdisciplinary Connections	Instructional Resources	Technology & 21 st C Skills NJCC Integration (Specify) CPI R	CCCS w/ Reference	Evaluation/ Assessment:
 Length Measurement Units and Tools Data Displays 		jumps and create a line plot for the data. 7-8 Make a frequency table and a line plot for a set of data. 7-9 Sort shapes, draw a picture graph, and measure body parts. 7-10Administer the Unit Assessments	Each Unit provides students with the opportunity to answer open ended response questions. Science – Every Lesson – See TM pages 24 – 37 to implement the Weather Routine and Temperature Routine. Science / Social Studies 7-1 TM 619. Students will solve number stories about the growth of a bamboo plant. Comp. Health & Physical Ed. 7-3 TM 633. Students practice addition by calculating the scores for two teams in <i>Basketball Addition</i> Additional Literature Links: http://media2.k12.mhedu.com /repository/private_data/DOC/ 50001139/59/67.pdf	 Centimeter cube Fact Triangles Pattern-Block Template Chalk Penny Stick-on notes 	synthesize and ethically use information from a variety of sources and media. • Evaluate and select information sources and digital tools based on the appropriateness for specific tasks. <i>Students utilize a variety</i> of websites and videos as digital tools to analyze, synthesize and solve problems. Online daily assessment checks will provide students with the opportunity to apply and practice lesson concepts and skills. <i>In each unit, an open</i> <i>ended response lesson</i> <i>provides opportunities for</i> <i>individuals to collaborate</i> with planning and managing a variety of activities. They collect and analyze data to <i>identify solutions and</i> make informed decisions 8.2.2.B.1 8.2.2.D.1 Technology Education, Engineering, Design, Computational Thinking – Programming: All students will develop an understanding of the		 Addition and Subtraction Fact Quizzes

<u>Topics/Concepts</u> (Incl. time / # days per topic)	<u>Critical Content</u> (Students Will Know:)	<u>Skill Objectives</u> (Students Will Be Able To:)	Instructional/Learning Activities & Interdisciplinary Connections	Instructional Resources	Technology & 21 st C Skills Integration (Specify)	<u>NJCCCS w/</u> CPI Reference	Evaluation/ Assessment:
					nature and impact of technology, engineering, technological design, computational thinking and the designed world as they relate to the individual, global society, and the environment.		
					Students will be able to understand:		
					 The cultural, social, economical, and political effects of technology. The influence of technology on history. Apply the design process. 		
					Through the integration and interdisciplinary connections in each unit, students will develop the understanding that math relates to the individual and global society		
					Activity cards and enrichment activities provide a variety of options for developing computational strategies.		

Unit Modifications for Special Population Students:

Struggling Learners	Gifted and Talented Students (Challenge Activities)	English Language Learners	Special Education Students
Readiness Activities, Extra Practice Activities,	Enrichment Activities	Vocabulary, Readiness Activities, Extra	Readiness Activities, Extra Practice Activities,
Differentiation Support		Practice Activities, Differentiation Support	Differentiation Support
*See Unit 7 Differentiating Lesson Activities		*See Unit 7 Differentiating Lesson Activities	*See Unit 7 Differentiating Lesson Activities
online resource for differentiation support for		online resource for differentiation support for	online resource for differentiation support for
children who need more scaffolding.		children who need more scaffolding.	children who need more scaffolding.
http:// connected.mcgraw-hill.com		http:// connected.mcgraw-hill.com	http:// connected.mcgraw-hill.com
Readiness Activities	Enrichment Activities	*See Readiness Activities and Extra Practice	Readiness Activities
7-1 Making Multiples of 10 (TM 615)	7-1 Playing <i>Hit the Target</i> with Other Numbers	Activities	7-1 Making Multiples of 10 (TM 615)
7-3 Using Base-10 Blocks to Add (Activity	(TM 615)	7-1 Build children's understanding of the term	7-3 Using Base-10 Blocks to Add (Activity
Card 87)	7-3 Adding Four 2-Digit Numbers (Activity	change to as meaning "to make something	Card 87)
7-4 Comparing Standard Units (TM 637)	Card 88)	different or turn it into something else".	7-4 Comparing Standard Units (TM 637)
7-5 Selecting Tools (TM 643)	7-4 Using Yards to Measure a Path (TM 637)	7-3 Build background knowledge about	7-5 Selecting Tools (TM 643)
7-6 Comparing Units (TM 649)	7-5 Using Meters to Measure a Path (TM 643)	basketball.	7-6 Comparing Units (TM 649)
7-7 Collecting and Organizing Data (TM 655)	7-6 Making Up and Solving Number Stories	7-4 Display labeled pictures of various kinds of	7-7 Collecting and Organizing Data (TM 655)
7-8 Recording Tally Marks (TM 661)	(TM 649)	yards, such as backyard, a front yard, and	7-8 Recording Tally Marks (TM 661)
7-9 Discussing Picture Graphs (TM 667)	7-7 Making a Line Plot (Activity Card 92)	a school yard. In simple sentences,	7-9 Discussing Picture Graphs (TM 667)
	7-8 Questions for Arm Span Line Plot (Activity	describe what might go on in such settings.	
	Card 94)	7-5 Display a labeled yardstick, meter stick,	
	7-9 Drawing a Bar Graph (TM 667)	and tape measure.	
		7-6 Model touching your arm as you say arm.	
		Show your arms outstretched and say:	
		This is my arm span.	
		7-7 Use concrete objects and think-alouds to	
		review how descriptive words in English	
		take the comparative –er and superlative –	
		est endings.	
		7-8 Use demonstrations to help children	
		understand the terms frequent and	
		frequency in terms of counting and totaling.	
		7-9 Use the verbs sort and group	
		interchangeably to build children's	
		understanding that sorting results in	
		groups of objects that share a common	
		attribute.	
Extra Practice Activities		Unit 7 Vocabulary:	Extra Practice Activities
7-1 Finding Difference (Activity Card 86)			7-1 Finding Difference (Activity Card 86)

7-3 Adding Four Numbers (Activity Card 89)	Addend; arm span; frequency table; line plot;	7-3 Adding Four Numbers (Activity Card 89)
7-4 Estimating and Measuring with Yards	meter; yard; multiple of 10; partial-sums	7-4 Estimating and Measuring with Yards
(Activity Card 90)	addition; personal reference; standard unit	(Activity Card 90)
7-5 Estimating and Measuring with Meters		7-5 Estimating and Measuring with Meters
(Activity Card 91)		(Activity Card 91)
7-6 Comparing Arm Span to Height (TM 649)		7-6 Comparing Arm Span to Height (TM 649)
7-7 Measuring Objects for a Line Plot (Activity		7-7 Measuring Objects for a Line Plot (Activity
Card 93)		Card 93)
7-8 Line Plot of Heights (TM 661)		7-8 Line Plot of Heights (TM 661)
7-9 Drawing a Favorite Fruits Bar Graph (TM		7-9 Drawing a Favorite Fruits Bar Graph (TM
667)		667)

UNIT OVERVIEW

Course Title: Everyday Mathematics 4 - Grade 2

Unit #: UNIT 8 OVERVIEW

Unit Title: Geometry and Arrays

Unit Description and Objectives:

- 8-1 Attributes of 2-Dimensional Shapes Students describe the attributes of 2-dimensional shapes. Students will reason with shapes and their attributes.
- 8-2 Playing Shape Capture Students identify shapes that certain attributes while playing the game Shape Capture. Students will reason with shapes and their attributes.
- 8-3 Comparing Triangles, Pentagons, and Hexagons Students build and compare various polygons. Students will reason with shapes and their attributes.
- 8-4 Drawing and Reasoning About Quadrilaterals Day 1 Students draw quadrilaterals with given attributes. Say 2 Students discuss solutions and revise their work. Students will reason with shapes and their attributes.
- 8-5 Attributes of 3-Dimensional Shapes Students sort and compare 3-dimensional shapes according to their attributes. Students will reason with shapes and their attributes.
- 8-6 Partitioning Rectangles, Part 1 Students use manipulatives to partition rectangles into same-size squares. Students will reason with shapes and their attributes.
- 8-7 Partitioning Rectangles, Part 2 Students partition rectangles into same size squares. Students will reason with shapes and their attributes.
- 8-8 Equal-Groups and Array Number Stories Students solve number stories about equal groups and Students will represent and solve problems involving addition and subtraction. Students will work with equal groups of objects to gain foundations for multiplication. Students will understand place value.
- 8-9 More Equal Groups and Arrays Students build equal groups and arrays and write number models for them. Students will represent and solve problems involving addition and subtraction. Students will work with equal groups of objects to gain foundations for multiplication. Students will understand place value.
- 8-10 Playing Array Concentration Students play Array Concentration to practice finding the total number of objects and writing corresponding number models. Students will work with equal groups of objects to gain foundations for multiplication. Students understand place value.
- 8-11 Exploring Mystery Shapes, Polygons, and Equal Parts Students describe attributes of shapes, build polygons with trapezoids, and show fractions on geoboard. Students will reason with shapes and their attributes.
- 8-12**Unit 8 Progress Check**

Essential Questions:	Enduring Understandings/Generalizations Students will understand that:	Guiding Questions
1. What is the relationship between arrays and repeated addition?	1. Repeated addition involves joining equal groups and is one way to think about multiplication.	 1.1 How can an array be used to help write a number sentence? 1.2 How are arrays and repeated addition related? 1.3 How can repeated addition help you understand multiplication?
2. What are features of a shape and how are they different from other shapes?	 Shapes can be grouped and sorted in a variety of ways. A shape can be identified by the number of its sides, vertices, angles. 	 2.1 How do we use the terms angle, vertices, faces, sides, and edges to describe geometric figures? 2.2 What is an angle? 2.3 What are the attributes of a shape? 2.4 What are some ways to sort shapes? 2.5 What makes an angle a right angle? 2.6 How can we use a right angle to compare and sort shapes? 2.7 What are parallel lines? 2.8 How do you know if a shape has parallel sides?
3. How are 3 dimensional geometric shapes and objects classified?	 Three-dimensional or solid figures have length, width, and height. Many 3 dimensional shapes can be described, classified, and analyzed by their faces or flat surfaces, edges, and vertices. 	 3.1 How can you sort 3 dimensional shapes? 3.2 How can you classify 3 dimensional shapes? 3.3 What happens when three-dimensional figures are cut and rearranged?
4. How can shapes and solids be described, and compared, and used to make other shapes?	4. Some shapes can be combined to make new shapes. Same shapes can be decomposed into other shapes.	 4.1 How can a rectangle be partitioned? 4.2 How can plane shapes be cut, rearranged, and combined to create new shapes?



Course Title/Grade:	Everyday Mathematic	cs 4 - Grade 2	Prima	ry Core Content Standa	ards referenced With	Cumulative	Progress Indicators
Unit Number/Title:	Unit 8 / Geometry and	d Arrays	2.G.1	2.G.2	2.G.3		2.OA.1
Conceptual Lens:	Geometry and Arrays	3	2.OA.4	2.NBT	.2		
Appropriate Time All	ocation (# of						
Davs):	Υ.	14 davs					
,							
Topics/Concepts	Critical Content	Skill Objectives	Instructional/Learning Activities	Instructional Resources	Technology & 21st C Skills	NJCCCS w/	Evaluation/ Assessment:
(Incl. time / # days per topic)	(Students Will Know:)	(Students Will Be Able To:)	<u>& Interdisciplinary Connections</u>		Integration (Specify)	CPI Reference	
In Unit 8, students explore 2- and 3- dimensional shapes and their attributes. They partition rectangles into rows and columns of same-size squares. They explore strategies for determining the total number of objects in equal groups and rectangular arrays. Student learning will focus on: • Operations and Algebraic Thinking (Works with equal groups of objects to gain foundation for multiplication) • Geometry (Reason with Shapes and their attributes) Unit 8 will focus on the	 Shapes have attributes Shapes can be sorted and compared Shapes can be classified by dimensions Solid figures can be described, classified and analyzed by their attributes A rectangle can be partitioned into rows and columns of the same size squares Arrays can be used to model multiplication 	 8-1 Describe the attributes of 2-dimensional shapes 8-2 Identify shapes that have certain attributes while playing the game <i>Shape Capture</i>. 8-3 Build and compare various polygons. 8-4Day 1- Draw quadrilaterals with given attributes. Day 2 – Discuss solutions and revise work. 8-5 Sort and compare 3- dimensional shapes according to their attributes. 8-6 Use manipulatives to partition rectangles into same-size squares. 8-7 Partition rectangles into same-size squares. 8-8 Solve number stories about equal groups 	Every lesson includes differentiation options for several groups of learners including Readiness, Enrichment, Extra Practice and Beginning English Language Learner Support. Refer to the second page of each lesson for these instructional learning activities. They are also listed on the following page. • Learning Activities – Follow Teacher's Lesson Guide Volume 2 pages 690 - 765 for lesson activities • Include Math Stations to assist struggling and advanced learners Science – Every Lesson – See TM pages 24 – 37 to implement the Weather	See page 680 of Teacher's Lesson Guide for instruction materials per lesson. Activity Cards 99 - 110 Number cards Pattern blocks Geoboards Rubber bands Ruler Slate Shape cards Two-Dimensional Shapes Poster 10-centimeter ruler Scissors Attribute cards Fact Triangles Straws Twist ties Base-10 blocks Square pattern block Chart papor	Everyday Math online: http://connected.mcgraw- hill.com/connected/ 8.1.2.A.1 8.1.2.A.4 8.1.2.E.1 - Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually to collaborate and to create and communicate knowledge. Students will: Understand and use technology systems Select and use applications effectively and	8.1.2.A.1 8.1.2.A.4 8.1.2.E.1 8.2.2.B.1 8.2.2.B.4 8.2.2.D.1	Formative Assessments: Math Message Mental Math & Fluency Math Boxes Use of White Board Questions & Answers Think, Pair, Share Home Links Math Journals Math Masters Math Masters Math Games Teacher Observation Summative Assessment(s) Unit Progress Check – Self Assessment, Written Assessment and Open Response
following Topics/ Concepts: • 2- and 3- Dimensional Shapes		and arrays. 8-9 Build equal groups and arrays and write number models for them.	Routine and Temperature Routine. ELA 8-1 – 8-12	 Chart paper Straightedge Colored pencils Inch ruler Stick-on notes 	 productively. Plan strategies to guide inquiry. Locate, organize, analyze, evaluate, 		Assessment • District Benchmarks • STAR

<u>Topics/Concepts</u> (Incl. time / # days per topic)	<u>Critical Content</u> (Students Will Know:)	<u>Skill Objectives</u> (Students Will Be Able To:)	Instructional/Learning Activities & Interdisciplinary Connections	Instructional Resources	<u>Technology & 21st C Skills</u> <u>Integration (Specify</u>)	NJCCCS w/ CPI Reference	Evaluation/ Assessment:
 Partitioning Rectangles Equal Groups and Arrays 		 8-10Play Array Concentration to practice finding the total number of objects in arrays and writing corresponding number models. 8-11Describe attributes of shapes, build polygons with trapezoids, and show fractions on a geoboard. 8-12Adminster Unit Assessments 	 Teacher models and reviews key vocabulary terms. Essential content specific vocabulary can be found in the introductory material on the first page of every lesson Each Unit provides students with the opportunity to answer open ended response questions. ELA 8-1 TM 691. Students will read <i>The Greedy Triangle</i> by: Marilyn Burns (Scholastic Inc., 2008) and identify attributes of shapes. Art 8-2 TM 697. Students will use Attribute Cards to draw shapes. ELA 8-3 TM 703. Students will read <i>Shape Up</i> by David Adler (Holiday House, 2008) and practice building shapes with specific attributes. ELA 8-8 TM 737. Students will write number stories for equal groups and arrays. ELA 8-8 TM 737. Students will read <i>Each Orange Had 8</i> <i>Slices: A Counting Book</i> by Paul Giganti Jr. (Greenwillow Books, 1999) and answer the questions posed in the book to practice with equal groups. ELA 8-10 TM 749. Read <i>One</i> <i>Hundred Hungry Ants</i> by 	 3-d shapes Centimeter cubes Everything Math Deck Number grid Pattern-Block Template Index cards Calculator Counters Large paper triangle 6-sided dice 20-sided polyhedral die Trapezoid pattern blocks Array Concentration Array Cards Tape glue 	 synthesize and ethically use information from a variety of sources and media. Evaluate and select information sources and digital tools based on the appropriateness for specific tasks. Students utilize a variety of websites and videos as digital tools to analyze, synthesize and solve problems. Online daily assessment checks will provide students with the opportunity to apply and practice lesson concepts and skills. In each unit, an open ended response lesson provides opportunities for individuals to collaborate with planning and managing a variety of activities. They collect and analyze data to identify solutions and make informed decisions 8.2.2.B.1 8.2.2.D.1 Technology Education, Engineering, Design, Computational Thinking – Programming: All students will develop an understanding of the 		Addition and Subtraction Fact Quizzes

<u>Topics/Concepts</u> (Incl. time / # days per topic)	<u>Critical Content</u> (Students Will Know:)	<u>Skill Objectives</u> (Students Will Be Able To:)	Instructional/Learning Activities & Interdisciplinary Connections	Instructional Resources	<u>Technology & 21st C Skills</u> <u>Integration (Specify</u>)	NJCCCS w/ CPI Reference	Evaluation/ Assessment:
			Elinor Pinszes (Sandpiper, 1999). Review all the different arrays into which the ants arranged themselves. Additional Literature Links: <u>http://media2.k12.mhedu.com</u> /repository/private_data/DOC/ 50001139/59/67.pdf		nature and impact of technology, engineering, technological design, computational thinking and the designed world as they relate to the individual, global society, and the environment.		
					 Students will be able to understand: The cultural, social, economical, and political effects of technology. The influence of technology on history. Apply the design process. 		
					Through the integration and interdisciplinary connections in each unit, students will develop the understanding that math relates to the individual and global society. Activity cards and enrichment activities provide a variety of options for developing computational strategies.		

Unit Modifications for Special Population Students:

Struggling Learners	Gifted and Talented Students (Challenge Activities)	English Language Learners	Special Education Students	
Readiness Activities Extra Practice Activities	Enrichment Activities	Vocabulary Readiness Activities Extra	Readiness Activities Extra Practice Activities	
Differentiation Support		Practice Activities, Differentiation Support	Differentiation Support	
*See Unit 8 Differentiating Lesson Activities		*See Unit 8 Differentiating Lesson Activities	*See Unit 8 Differentiating Lesson Activities	
online resource for differentiation support for		online resource for differentiation support for	online resource for differentiation support for	
children who need more scaffolding.		children who need more scaffolding.	children who need more scaffolding.	
http:// connected.mcgraw-hill.com		http:// connected.mcgraw-hill.com	http:// connected.mcgraw-hill.com	
Readiness Activities	Enrichment Activities	*See Readiness Activities, Enrichment	Readiness Activities	
8-1 Sorting Pattern Blocks (TM 691)	8-1 Solving Shape Riddles (Activity Card 99)	Activities and Extra Practice Activities	8-1 Sorting Pattern Blocks (TM 691)	
8-2 Identifying Attributes (TM 697)	8-2 Comparing Shapes (TM 697)	8-1 Preteach the terms side, straight, parallel,	8-2 Identifying Attributes (TM 697)	
8-3 Playing Touch and Match with Shapes	8-3 Solving Shape Riddles (Activity Card 99)	angle, and vertex.	8-3 Playing Touch and Match with Shapes	
(TM 703)	8-5 Describing Faces on a Cube (TM 719)	8-2 Use role play to introduce the word	(TM 703)	
8-5 Identifying Pattern-Block Template Shapes	8-6 Partitioning Rectangles without Tools (TM	capture.	8-5 Identifying Pattern-Block Template Shapes	
(TM 719)	725)	8-3 Contrast the term in common with the term	(TM 719)	
8-6 Covering Surfaces with Nonstandard Units	8-7 Partitioning Polygons (TM 731)	different.	8-6 Covering Surfaces with Nonstandard Units	
(IM 725)	8-8 Writing Number Stories for Equal Groups	8-5 To introduce the mathematical meaning of	(IM 725)	
8-7 Covering More Surfaces with Nonstandard	and Arrays (TM 737)	the term, race, show a variety of solids with	8-7 Covering More Surfaces with Nonstandard	
Office (TM 731) 9.9 Making Equal Power (TM 727)	(TM 742)	8 6 Les think clouds and folding activities to	Utills (TW 731) 9.9 Making Equal Dawa (TM 727)	
8.0 Connecting Arrays and Equal Croups (TM	(114743) 8 10 Exploring Square Numbers (Activity Card	demonstrate the meaning of partition and	8.0 Connecting Arrays and Equal Groups (TM	
		connect it to the term narts		
8-10Arrays in Literature (TM 749)	8-11Sorting Shape Words (TM 755)	8-7 Introduce the adjective same-size using	8-10Arrays in Literature (TM 749)	
8-11Showing Equal Parts (TM 755)		stick-on notes of different sizes and colors	8-11Showing Equal Parts (TM 755)	
		Show how stick-on notes of the same size		
		cover each other exactly, regardless of		
		color.		
		8-8 Provide children with physical experiences		
		to reinforce their understanding of the		
		terms column and row.		
		8-9 Use the term array to describe items		
		students may have seen in everyday life.		
		8-10Use concrete examples of equal groups		
		of objects to illustrate the term equal		
		addends.		
		8-11Scattold the vocabulary needed to		
		participate in Exploration A by having		

	children draw pictures on the back of cards	
	that name shapes or shape attributes.	
Extra Practice Activities	Unit 8 Vocabulary:	Extra Practice Activities
8-1 Indentifying Attribute of Shapes (Activity	Angle; apex; array; attribute; column, row;	8-1 Indentifying Attribute of Shapes (Activity
Card 100)	cube; equal groups; face; parallel; parallel	Card 100)
8-2 Drawing Shapes (Activity Card 101)	sides; partition; polygon; quadrilateral; right	8-2 Drawing Shapes (Activity Card 101)
8-3 Making Shapes (Activity Card 102)	angle; side; vertex	8-3 Making Shapes (Activity Card 102)
8-5 Sorting Shapes (Activity Card 103)		8-5 Sorting Shapes (Activity Card 103)
8-6 Partitioning Rectangles into Squares (TM		8-6 Partitioning Rectangles into Squares (TM
725)		725)
8-7 Partitioning Rectangles (TM 731)		8-7 Partitioning Rectangles (TM 731)
8-8 Equal Groups in Literature (TM 737)		8-8 Equal Groups in Literature (TM 737)
8-9 Finding Equal Groups and Arrays (Activity		8-9 Finding Equal Groups and Arrays (Activity
Card 104)		Card 104)
8-10Array Bingo (Activity Card 106)		8-10Array Bingo (Activity Card 106)
8-11Making My Shape (Activity Card 110)		8-11Making My Shape (Activity Card 110)

UNIT OVERVIEW

Course Title: Everyday Mathematics 4 – Grade 2

Unit #: UNIT 9 OVERVIEW

Unit Title: Equal Shares and Whole Number Operations

Unit Description and Objectives:

- 9-1 Creating and Naming Equal Parts Students divide shapes and use fraction vocabulary to name the shares. Students will reason with shapes and their attributes.
- 9-2 Exploring Equal Shares, Pattern-Block Fractions, and Number Lines Students explore equal shares of different shapes, use pattern blocks to divide shapes, and make a number line. Students will relate addition and subtraction to length. Students will reason with shapes and their attributes.
- 9-3 Sharing Muffins Day 1 Students decide how to share muffins equally and use words to name the shares. Day 2 Students discuss select drawings and names, and revise their work. Students will reason with shapes and their attributes.
- 9-4 Fractional Units of Length Students measure lengths to the nearest half-inch. Students will measure and estimate lengths in standard units. Students will relate addition and subtraction to length.
- 9-5 Reviewing Place Value Students write multi-digit numbers in expanded form and compare them. Students will understand place value.
- 9-6 Expand-and-Trade Subtraction, Part 1 Students use base-10 blocks to solve subtraction problems. Students will understand place value. Students will use place value understanding and properties of operations to add and subtract.
- 9-7 Expand-and-Trade Subtraction, Part 2 Students use expand-and-trade subtraction to subtract multi-digit numbers. Students will understand place value. Students will use place value understanding and properties of operations to add and subtract.
- 9-8 Equivalent Money Amounts Students practice finding coin and bill combinations with equivalent values and using cents and dollars-and-cents notation. Students will understand place value. Students will use place value understanding and properties of operations to add and subtract. Students will work with time and money.
- 9-9 Estimating Costs Day 1 Students select items from a store poster and use mental math to estimate the total cost. Day 2 Students discuss selected children's estimates, and students revise their work. Students will represent and solve problems involving addition and subtraction. Students will use place value understanding and properties of operations to add and subtract.
- 9-10Connecting Doubles Facts, Even Numbers, and Equal Groups Students solve number stories about 2 equal groups. Students will represent and solve problems involving addition and subtraction. Students will add and subtract within 20. Students will work with equal groups of objects to gain foundations for multiplication.
- 9-11 Multiples of 10 and 5 Students skip count and add to solve problems involving multiples of 10 and 5. Students will understand place value. Students will use place value understanding and properties of operations to add and subtract.
- 9-12Unit 9 Progress Check Day 1 Students complete the Unit Assessments. Day 2 Students complete the Open Response Assessment.

Essential Questions:	Enduring	Guiding Questions		
	Understandings/Generalizations			
	Students will understand that:			
1. How can I partition a circle or a rectangle?	1. Circles and rectangles can be partitioned in	1.1 How can I divide circles and rectangles into		
	halves, thirds, fourths and guarters, which create	equal parts?		
	smaller shares of the whole	1.2 How do I name the equal parts?		
		1.3 How do I compare equal parts of different		
	Equal shares can be different shapes within the	Shapes?		
	same whole			
2. What is an effective way to estimate numbers?	2. Some real world situations involve repeated addition and/or arrays and can be solved using	2.1 How can estimation strategies help us build our addition skills?		
	multiplication.	2-2 When will estimating be helpful to us?		
		2-3 How can benchmark numbers help us add and subtract?		
3. What is a standard procedure for subtracting two digit numbers?	3. The standard algorithm for subtracting two digit and two-digit numbers is just an extension of the	3.1 Why is knowing basic facts important to solving 2 digit problems?		
	algorithm for subtracting two-digit and one-digit numbers.	3.2 Why is understanding place value important to solving 2 digit problems?		
		3.3 How do I use 2 digit addition and subtraction to find the missing value?		
		3.4 How do you set up a subtraction problem?		
		3.5 How do you subtract with regrouping?		
4. What are different ways to express 3 digit	4. A 3 digit number is made up of ones, tens, and	4.1 What are different ways to write numbers?		
numbers?	hundreds and can be expressed in different forms?	4.2 How does knowing the place value of a number determine its value?		
		4.3 How can I use what I know about place and		
		value to determine the worth of a given number?		
		4.4 What is expanded form of a number?		



Course Title/Grade:	Everyday Mathematics 4 - Grade 2	Primary Core Content Standards referenced With Cumulative Progress Indicators				
Unit Number/Title:	Unit 9 / Equal Shares and Whole Number Operations	2.OA.1	2.OA.2	2.OA.3	2.OA.4	
Conceptual Lens:	Equal Shares and Whole Number Operations	and Whole Number Operations 2.NBT.1 2.NBT.3 2.NBT.4 2.NBT.5		2.NBT.6 2.NBT.7	2.NBT.8 2.NBT.9	
Appropriate Time Allocation (# of						
Days):	15 days	2.G.3	2.MD.1	2.MD.4	2.MD.6	

<u>Topics/Concepts</u> (Incl. time / # days per topic)	<u>Critical Content</u> (Students Will Know:)	<u>Skill Objectives</u> (Students Will Be Able To:)	Instructional/Learning Activities & Interdisciplinary Connections	Instructional Resources	Technology & 21 st C Skills Integration (Specify)	NJCCCS w/ CPI Reference	Evaluation/ Assessment:
In Unit 9, shapes are partitioned into equal shares and these ideas are applied to further explore length measurement. New subtraction strategies based on place value are learned. Student learning will focus on: • Operations and Algebraic Thinking (Work with equal groups of objects to gain foundations for multiplication) • Number and Operations in Base Ten (Understand place value. Use place value understanding and properties of operations to add and subtract. • Geometry (Reason with shapes and their attributes)	 A part of a partitioned figure is called a share When shares are all the same size they are called equal shares Shares must be the same size but not necessarily the same shape The name of equal shares by using fraction words such as one-half, one-third and 1out of 4 parts The name of a whole using words such as two-halves, three-thirds, and fourfourths To represent 3-digit numbers a variety of ways To apply place value knowledge to subtract using expand-and-trade strategy 	 9-1 Divide shapes and use fraction vocabulary to name the shares. 9-2 Explore equal shares of different shapes, use pattern blocks to divide shapes, and make a number line. 9-3 Day 1 – Decide how to share muffins equally and use words to name the share. Day 2 – Discuss selected drawings and names, and revise work. 9-4 Measure lengths to the nearest half inch. 9-5 Write multi-digit numbers in expanded form and compare them. 9-6 Use base-10 blocks to solve subtraction problems. 9-7 Use expand-and-trade subtraction to subtract multi-digit numbers. 9-8 Practice finding coin and bill combinations with equivalent values and using cents and 	Every lesson includes differentiation options for several groups of learners including Readiness, Enrichment, Extra Practice and Beginning English Language Learner Support. Refer to the second page of each lesson for these instructional learning activities. They are also listed on the following page • Learning Activities – Follow Teacher's Lesson Guide Volume 2 pages 778 - 859 for lesson activities • Include Math Stations to assist struggling and advanced learners Science – Every Lesson – See TM pages 24 – 37 to implement the Weather Routine and Temperature Routine. ELA 9-1 – 9-12	See page 768 of Teacher's Lesson Guide for instruction materials per lesson. Activity Card 111 – 120 Geoboard Rubber bands Pattern blocks Base-10 blocks Number cards Calculator Toolkit coins Toolkit coins Counters Class number line Paper squares Class Data Pad Chart paper Array Concentration Array Cards Circle template Colored construction paper Scissors Slates	Everyday Math online: http://connected.mcgraw- hill.com/connected/ 8.1.2.A.1 8.1.2.A.4 8.1.2.E.1 - Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually to collaborate and to create and communicate knowledge. Students will: • Understand and use technology systems • Select and use applications effectively and productively. • Plan strategies to guide inquiry. • Locate, organize, analyze, evaluate,	8.1.2.A.1 8.1.2.A.4 8.1.2.E.1 8.2.2.B.1 8.2.2.B.4 8.2.2.D.1	 Formative Assessments: Math Message Mental Math & Fluency Math Boxes Use of White Board Questions & Answers Think, Pair, Share Home Links Math Journals Math Masters Math Games Teacher Observation Summative Assessment(s) Unit Progress Check – Self Assessment, Written Assessment and Open Response Assessment District Benchmarks STAR

<u>Topics/Concepts</u> (Incl. time / # days per topic)	<u>Critical Content</u> (Students Will Know:)	<u>Skill Objectives</u> (Students Will Be Able To:)	Instructional/Learning Activities & Interdisciplinary Connections	Instructional Resources	<u>Technology & 21st C Skills</u> <u>Integration (Specify</u>)	NJCCCS w/ CPI Reference	Evaluation/ Assessment:
Unit 9 will focus on the following Topics / Concepts: Place Value and Subtraction Money Multiples of 2, 5, and 10	 Coins can be exchanged for equal value and combined to purchase items The total number of objects in two equal groups is always even Doubles addition facts and even numbers relate to find multiples of 2 	dollars-and-cents notation. 9-9 Day 1 -Select items from a store poster and use mental math to estimate the total cost. Day 2 – Discuss selected children's estimates, and revise their work. 9-10Solve number stories about 2 equal groups. 9-11Skip count and add to solve problems involving multiples of 10 and 5. 9-12Unit 9 Progress Check	 Teacher models and reviews key vocabulary terms. Essential content specific vocabulary can be found in the introductory material on the first page of every lesson Each Unit provides students with the opportunity to answer open ended response questions. ELA/ Art 9-1 TM 779. Students will read Ed Emberlley's Picture Pie: A Cut and Paste Drawing Book by Ed Emberley (Little, Brown and Company, 2006). To apply their understanding of names for equal parts, they will trace circles of different sizes and fold them to divide them into equal parts. They will create their own circle designs. Career Education/Consumer, Family & Life Skills 9-8 TM 827 – Students will plan and shop for food for a picnic. TM 830 – Students will select items to buy and calculate the cost. Career Education/Consumer, Family & Life Skills 9-9 TM 832 - 839 – Students will select items from a store poster and use mental math to estimate the total cost. 	 Pattern-block template 2-3 paper strips Fact Triangles Scissors 15 cut out circles 12 inch ruler 3 inch paper strip Attribute cards Shape Cards Quarter-sheets of paper Stick-on notes Number grid Large poster board Coins Colored pencils 	synthesize and ethically use information from a variety of sources and media. • Evaluate and select information sources and digital tools based on the appropriateness for specific tasks. <i>Students utilize a variety</i> of websites and videos as digital tools to analyze, synthesize and solve problems. Online daily assessment checks will provide students with the opportunity to apply and practice lesson concepts and skills. <i>In each unit, an open</i> ended response lesson provides opportunities for individuals to collaborate with planning and managing a variety of activities. They collect and analyze data to identify solutions and make informed decisions 8.2.2.B.1 8.2.2.D.1 Technology Education, Engineering, Design, Computational Thinking – Programming: All students will develop an understanding of the		 Addition and Subtraction Fact Quizzes
<u>Topics/Concepts</u> (Incl. time / # days per topic)	<u>Critical Content</u> (Students Will Know:)	<u>Skill Objectives</u> (Students Will Be Able To:)	Instructional/Learning Activities & Interdisciplinary Connections	Instructional Resources	<u>Technology & 21st C Skills</u> <u>Integration (Specify</u>)	NJCCCS w/ CPI Reference	Evaluation/ Assessment:
---	--	--	--	-------------------------	---	----------------------------	-------------------------
			Additional Literature Links: http://media2.k12.mhedu.com /repository/private_data/DOC/ 50001139/59/67.pdf		 nature and impact of technology, engineering, technological design, computational thinking and the designed world as they relate to the individual, global society, and the environment. Students will be able to understand: The cultural, social, economical, and political effects of technology. The influence of technology on history. Apply the design process. Through the integration and interdisciplinary connections in each unit, students will develop the understanding that math relates to the individual and global society. Activity cards and enrichment activities provide a variety of options for developing computational strategies. 		

Unit Modifications for Special Population Students:

Struggling Learners	Gifted and Talented Students (Challenge Activities)	English Language Learners	Special Education Students
Readiness Activities, Extra Practice Activities,	Enrichment Activities	Vocabulary, Readiness Activities, Extra	Readiness Activities, Extra Practice Activities,
Differentiation Support		Practice Activities, Differentiation Support	Differentiation Support
*See Unit 9 Differentiating Lesson Activities		*See Unit 9 Differentiating Lesson Activities	*See Unit 9 Differentiating Lesson Activities
online resource for differentiation support for		online resource for differentiation support for	online resource for differentiation support for
children who need more scaffolding.		children who need more scaffolding.	children who need more scaffolding.
http:// connected.mcgraw-hill.com		http:// connected.mcgraw-hill.com	http:// connected.mcgraw-hill.com
Readiness Activities	Enrichment Activities	*See Readiness Activities, Enrichment	Readiness Activities
9-1 Partitioning Slates into Equal Parts (TM	9-1 Naming Equal Parts Found in Literature	Activities, and Extra Practice Activities	9-1 Partitioning Slates into Equal Parts (TM
779)	(Activity Card 111)	9-1 Teach children some everyday meanings	779)
9-2 Folding Paper Pizzas (TM 785)	9-2 Showing Fractions for One-Half (TM 785)	of the term share using teacher modeling,	9-2 Folding Paper Pizzas (TM 785)
9-4 Comparing Lengths of Objects (TM 799)	9-4 Measuring a Crooked Path (TM 799)	think alouds, and commonly used	9-4 Comparing Lengths of Objects (TM 799)
9-5 Base-10 "Buildings" (Activity Card 17)	9-5 Exploring Place Value (TM 805)	classroom directions.	9-5 Base-10 "Buildings" (Activity Card 17)
9-6 Trading with Base-10 Blocks (TM 811)	9-6 Subtracting Multi-digit Numbers (Activity	9-2 Provide additional experience with the	9-6 Trading with Base-10 Blocks (TM 811)
9-7 Trading with Base-10 Blocks (TM 819)	Card 116)	following terms: one-half, two-halves, one-	9-7 Trading with Base-10 Blocks (TM 819)
9-8 Finding Ways to Make a Dollar (TM 827)	9-7 Exploring Subtraction Strategies (Activity	third, three-thirds, one-fourth, and four	9-8 Finding Ways to Make a Dollar (TM 827)
9-10Modeling Two Equal Groups (TM 841)	Card 118)	fourths.	9-10Modeling Two Equal Groups (TM 841)
9-11Counting on Calculators (TM 847)	9-8 Planning a Picnic (TM 827)	9-4 Scaffold for children to understand the	9-11Counting on Calculators (TM 847)
	9-10A Paper Folding Problem (TM 841)	meaning of <i>nearest</i> by beginning with a	
	9-11Making Multiples (TM 847)	contrast of <i>near</i> and <i>far</i> .	
		9-5 Review the terms <i>flats, long,</i> and <i>cube</i> as	
		the names of base-10 blocks before	
		introducing the term thousand cube.	
		9-6 To review the meaning of the term <i>trade</i> ,	
		present examples of trades using coins	
		and bills.	
		9-7 Use role play to review the term <i>trade</i> .	
		9-8 Distinguish between the homophones	
		good buy and good-bye.	
		9-10Build on children's experiences with	
		everyday examples of arrays, such as egg	
		cartons and ice-cube trays.	
		9-11Use teacher modeling to help children	
		understand that <i>multiply</i> refers to an	
		action, whereas multiple refers to a	
		number.	
Extra Practice Activities		Unit 9 Vocabulary:	Extra Practice Activities

9-1 Dividing Shapes into Equal Parts (TM 779)	Ball park estimate; close-but-easier numbers;	9-1 Dividing Shapes into Equal Parts (TM 779)
9-2 Finding Equal Parts of Shapes (TM 785)	equal shares; expand-and-trade subtraction;	9-2 Finding Equal Parts of Shapes (TM 785)
9-4 Drawing and Measuring to the Nearest	four-fourths; fourth-inch; half-inch; multiple;	9-4 Drawing and Measuring to the Nearest
Half-Inch (TM 799)	one-fourth; one-half; one-quarter; one-third;	Half-Inch (TM 799)
9-5 Playing Number Top-It (TM 805)	precise; quarter-inch; reasonable; thousand	9-5 Playing Number Top-It (TM 805)
9-6 Subtracting with Base-10 Blocks (Activity	cube; three-thirds; two-halves	9-6 Subtracting with Base-10 Blocks (Activity
Card 117)		Card 117)
9-7 Practicing Expand-and-Trade Subtraction		9-7 Practicing Expand-and-Trade Subtraction
(Activity Card 119)		(Activity Card 119)
9-8 Practicing with Equivalent Money Amounts		9-8 Practicing with Equivalent Money Amounts
(TM 827)		(TM 827)
9-10Writing Number Stories with 2 Equal		9-10Writing Number Stories with 2 Equal
Groups (Activity Card 120)		Groups (Activity Card 120)
9-11 Patterns in Multiples of 2, 5, and 10 (TM		9-11 Patterns in Multiples of 2, 5, and 10 (TM
847)		847)

CROSS-CONTENT STANDARDS ANALYSIS

 Course Title:
 Everyday Mathematics 4
 Grade:
 2

Unit Title:	Visual and Performing Arts	Comp. Health & Physical Ed.	English Language Arts	Mathematics	Science	Social Studies	World Languages	Technology	21 st Century Life & Careers
Establishing Routines			*ELA is integrated in each lesson in every unit through vocabulary and writing responses.		*Science is integrated in each lesson in every unit during the Weather Routine and Temperature Routine	6.2C.3.c 6.2.12.C6.d		8.1.2.A.1 8.1.2.A.4 8.1.2.E.1 8.2.2.B.1 8.2.2.B.4 8.2.2.D.1	
Fact Strategies			W.2.2 SL.2.1 SL.2.3 L.2.1 L.2.4		5.4.2.F.1 5.4.4.F.1			8.1.2.A.1 8.1.2.A.4 8.1.2.E.1 8.2.2.B.1 8.2.2.B.4 8.2.2.D.1	
More Fact Strategies			W.2.2 SL.2.1 SL.2.3 L.2.1 L.2.4		5.4.2.F.1 5.4.4.F.1			8.1.2.A.1 8.1.2.A.4 8.1.2.E.1 8.2.2.B.1 8.2.2.B.4 8.2.2.D.1	
Place Value & Measurement			W.2.2 SL.2.1 SL.2.3 L.2.1 L.2.4		5.4.2.F.1 5.4.4.F.1			8.1.2.A.1 8.1.2.A.4 8.1.2.E.1 8.2.2.B.1 8.2.2.B.4 8.2.2.D.1	
Addition and Subtraction			W.2.2 SL.2.1 SL.2.3 L.2.1 L.2.4		5.4.2.F.1 5.4.4.F.1	6.1.4.B.1		8.1.2.A.1 8.1.2.A.4 8.1.2.E.1 8.2.2.B.1 8.2.2.B.4 8.2.2.D.1	
Whole Number Operations & Number Stories			W.2.2 SL.2.1 SL.2.3 L.2.1		5.4.2.F.1 5.4.4.F.1			8.1.2.A.1 8.1.2.A.4 8.1.2.E.1 8.2.2.B.1	

Revised: 2015

Unit Title:	Visual and Performing Arts	Comp. Health & Physical Ed.	English Language Arts	Mathematics	Science	Social Studies	World Languages	Technology	21 st Century Life & Careers
			L.2.4					8.2.2.B.4 8.2.2.D.1	
Whole Number Operations & Measurement Data		2.5.2.A.1 2.5.2.B.1 2.5.2.C.1	W.2.2 SL.2.1 SL.2.3 L.2.1 L.2.4		5.4.2.F.1 5.4.4.F.1	6.1.4.B.1		8.1.2.A.1 8.1.2.A.4 8.1.2.E.1 8.2.2.B.1 8.2.2.B.4 8.2.2.D.1	
Geometry & Arrays	1.3.2.D.1		W.2.2 SL.2.1 SL.2.3 L.2.1 L.2.4		5.4.2.F.1 5.4.4.F.1			8.1.2.A.1 8.1.2.A.4 8.1.2.E.1 8.2.2.B.1 8.2.2.B.4 8.2.2.D.1	
Equal Shares & Whole Number Operations	1.3.2.D.1		W.2.2 SL.2.1 SL.2.3 L.2.1 L.2.4		5.4.2.F.1 5.4.4.F.1			8.1.2.A.1 8.1.2.A.4 8.1.2.E.1 8.2.2.B.1 8.2.2.B.4 8.2.2.D.1	

*All core content areas may not be applicable in a particular course.

Washington Township Public Schools Department of Student Personnel Services

CURRICULUM MODIFICATION

The regular curriculum is modified for Special Education students enrolled in both self-contained and resource center classes.

Modifications address individual learning rates, styles, needs and the varying abilities of all special populations served in the programs available in the district.

The intent is three-fold:

- To provide alternative materials, techniques and evaluation criteria to address the range of students' needs;
- To parallel the regular curriculum in skill, content sequence and coverage to prepare students for mainstreaming;
- To maximize students' potential for movement to less restrictive environments.

In the event there is a conflict between the prescribed curriculum and the IEP for an individual student, the IEP will take precedence and will constitute the individually prescribed proficiencies for the student.