Unit 1 (Ch 1-4)

Content Area: **Mathematics**
Course(s): **Mathematics 4**
Time Period: **September**
Length: **52 days (including 2 days for iReady testing)**
Status: **Published**

Unit #1 Overview

The students will be working on:

Place Value Concepts

Add and Subtract Multi-Digit Numbers

Multiply by One-Digit Numbers

Multiply by Two-Digit Numbers

Priority Standards

MATH.4.OA.A.1	Interpret a multiplication equation as a comparison, e.g., interpret 35 = 5 × 7 as a statement that 35 is 5 times as many as 7 and 7 times as many as 5. Represent verbal statements of multiplicative comparisons as multiplication equations.
MATH.4.OA.A.2	Multiply or divide to solve word problems involving multiplicative comparison, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem, distinguishing multiplicative comparison from additive comparison.
MATH.4.OA.A.3	Solve multi-step word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.
MATH.4.NBT.A.1	Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right.
MATH.4.NBT.A.2	Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons.
MATH.4.NBT.A.3	Use place value understanding to round multi-digit whole numbers to any place.
MATH.4.NBT.B.4	With accuracy and efficiency, add and subtract multi-digit whole numbers using the standard algorithm.
MATH.4.NBT.B.5	Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.

Learning Targets

- Lesson 1-1 I can identify the values of digits in multi-digit numbers.
- Lesson 1-2 I can read and write multi-digit numbers in different forms.
- Lesson 1-3 I can use place value to compare two multi-digit numbers.
- Lesson 1-4 I can use place value to round multi-digit numbers.
- Lesson 2-1 I can use rounding to estimate sums and differences.
- Lesson 2-2 I can add multi-digit numbers and check whether the sum is reasonable.
- Lesson 2-3 I can subtract multi-digit numbers and check my answer.
- Lesson 2-4 I can use strategies to add and subtract multi-digit numbers.
- Lesson 2-5 I can use the problem-solving plan to solve two-step addition and subtraction word problems.
- Lesson 3-1 I can use multiplication to compare two numbers.
- Lesson 3-10 I can solve multi-step word problems involving multiplication.
- Lesson 3-2 I can use place value to multiply by tens, hundreds, or thousands.
- Lesson 3-3 I can use rounding to estimate products.
- Lesson 3-4 I can use the Distributive Property to multiply.
- Lesson 3-5 I can use expanded form and the Distributive Property to multiply.
- Lesson 3-6 I can use place value and partial products to multiply.
- Lesson 3-7 I can multiply two-digit numbers by one-digit numbers.
- Lesson 3-8 I can multiply multi-digit numbers by one-digit numbers.
- Lesson 3-9 I can use properties to multiply.
- Lesson 4-1 I can use place value and properties to multiply by multiples of ten.
- Lesson 4-2 I can use rounding and compatible numbers to estimate products.
- Lesson 4-3 I can use area models and partial products to multiply.
- Lesson 4-4 I can use area models and the Distributive Property to multiply.
- Lesson 4-5 I can use place value and partial products to multiply.
- Lesson 4-6 I can multiply two-digit numbers.
- Lesson 4-7 I can use strategies to multiply two-digit numbers.
- Lesson 4-8 I can solve multi-step word problems involving two-digit multiplication.

Essential Questions

- How does place value help represent the value of numbers?
- What strategies can I use to add, subtract or multiply whole numbers?

Materials and Resources

- Big Ideas Online digital platform
- Big Ideas Workbook Volume 1
- Common Core Quick Check (Printable)
- Exit Tickets
- Foldables
- Hands On Manipulatives
- iReady platform 40 minutes/week with individual paths for each student
- Problem of the Day (Printable)
- Reflex Math
- Visual Vocabulary Cards
- Weekly Calendar

Unit Assessments (Required)

- Big Ideas Chapter 1 Assessment Form B
- Big Ideas Chapter 2 Assessment Form B
- Big Ideas Chapter 3 Assessment Form B
- Big Ideas Chapter 4 Assessment Form B

Unit Assessments (Optional)

- Big Ideas Chapter Assessment Form A
- Big Ideas Created Assessment: Course Benchmark # 1 (for use after Chapter 3)
- Big Ideas Created Assessment: Pre-Course Test (administer beginning of the year prior to instruction)
- Journal Writing
- Standardized Test Practice (NJSLA released items)
- Teacher Created Assessments/Exit Tickets Big Ideas

Learning Plan

Time Frame	Big Ideas	NJSLA Priority Standard	Learning Goals	Learning Targets	Lesson/Activities
Chapter 1 (11 days = 9 + 2 days for iReady testing)	Chapter 1: Lesson 1	4.NBT.A.1 Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right. 4.NBT.A.2 Read and write multi-digit whole numbers using base ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the	● Identify the first six place value names. ● Identify the value of each digit in a number. ● Compare the values of two of the same digits in a number	I can identify the values of digits in multi-digit numbers.	-Chapter Opener -Whole Group Lesson -Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform) -See Strategies for Differentiating

		digits in each place, using >, =, and < symbols to record the results of comparisons.			Instruction to utilize during Math Centers -See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online platform -iReady for 40 minutes/week -Whole Group Lesson -Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform)
Chapter 1 (11 days = 9 + 2 days for iReady testing)	Chapter 1: Lesson 2	4.NBT.A.2 Read and write multi-digit whole numbers using base ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons.	● Write a number in standard form. ● Read and write a number in word form. ● Write a number in expanded form.	I can read and write multi-digit numbers in different forms.	-See Strategies for Differentiating Instruction to utilize during Math Centers -See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online platform -iReady for 40 minutes/week -Whole Group Lesson -Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform)
Chapter 1 (11 days = 9 + 2 days for iReady testing)	Chapter 1: Lesson 3	4.NBT.A.2 Read and write multi-digit whole numbers using base ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons.	● Explain how to compare two numbers with the same number of digits. ● Use the symbols <, >, and = to compare two numbers.	I can use place value to compare two multi-digit numbers.	-See Strategies for Differentiating

					Instruction to utilize during Math Centers -See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online platform -iReady for 40 minutes/week -Whole Group Lesson -Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform) -See Strategies for Differentiating Instruction to utilize during Math Centers
Chapter 1 (11 days = 9 + 2 days for iReady testing)	Chapter 1: Lesson 4	4.NBT.A.3 Use place value understanding to round multi-digit whole numbers to any place.	● Explain which digit I use to round and why. ● Round a multi-digit number to any place.	I can use place value to round multi-digit numbers.	-See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online platform. -iReady for 40 minutes/week -Review & Chapter Assessment
Chapter 2 (11 days)	Chapter 2: Lesson 1	4.NBT.A.3 Use place value understanding to round multi-digit whole numbers to any place. 4.NBT.B.4 With accuracy and	● Use rounding to estimate a sum. ● Use rounding to estimate a difference. ● Explain what	I can use rounding to estimate sums and differences.	-Chapter Opener -Whole Group Lesson -Exit Tickets (4th grade shared folder Math already created or

		efficiency, add and subtract multi-digit whole numbers using the standard algorithm.	happens when I round to different place values.		create your own online via Big Ideas online platform) -See Strategies for Differentiating Instruction to utilize during Math Centers -See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online platform -iReady for 40 minutes/week -Whole Group Lesson -Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform)
Chapter 2 (11 days)	Chapter 2: Lesson 2	4.NBT.B.4 With accuracy and efficiency, add and subtract multi-digit whole numbers using the standard algorithm.	● Use place value to line up the numbers in an addition problem. ● Add multi-digit numbers, regrouping when needed. ● Estimate a sum to check whether my answer is reasonable.	I can add multi-digit numbers using the standard algorithm and check whether the sum is reasonable.	-See Strategies for Differentiating Instruction to utilize during Math Centers -See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online platform -iReady for 40 minutes/week -Whole Group Lesson -Exit Tickets (4th grade shared folder Math already created or
Chapter 2 (11 days)	Chapter 2: Lesson 3	4.NBT.B.4 With accuracy and efficiency, add and subtract multi-digit whole numbers using the standard algorithm.	● Use place value to line up the numbers in a subtraction problem. ● Subtract	I can subtract multi-digit numbers and check my answer.	

			multi-digit numbers, regrouping when needed. ● Estimate a difference or use addition to check my answer.		create your own online via Big Ideas online platform) -See Strategies for Differentiating Instruction to utilize during Math Centers -See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online platform -iReady for 40 minutes/week -Whole Group Lesson -Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform)
Chapter 2 (11 days)	Chapter 2: Lesson 4	4.NBT.B.4 Fluently add and subtract multi-digit whole numbers using the standard algorithm.	● Use strategies to add multi-digit numbers. ● Use strategies to subtract multi-digit numbers.	I can use strategies to add and subtract multi-digit numbers.	-See Strategies for Differentiating Instruction to utilize during Math Centers -See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online platform -iReady for 40 minutes/week -Whole Group Lesson -Exit Tickets (4th grade shared folder Math already created or
Chapter 2 (11 days)	Chapter 2: Lesson 5	4.NBT.B.4 With accuracy and efficiency, add and subtract multi-digit whole numbers using the standard algorithm.	● Understand a problem. ● Make a plan to solve a problem using letters to	I can use the problem-solving plan to solve two-step addition and subtraction word problems.	

		4.OA.A.3 Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.	represent the unknown numbers. ● Solve a problem and check whether my answer is reasonable.		create your own online via Big Ideas online platform) -See Strategies for Differentiating Instruction to utilize during Math Centers -See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online platform. -Review & Chapter Assessment -Chapter Opener -Whole Group Lesson -Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform)
Chapter 3 (16 days)	Chapter 3: Lesson 1	4.OA.A.1 Interpret a multiplication equation as a comparison. Represent verbal statements of multiplicative comparisons as multiplication equations. 4.OA.A.2 Multiply or divide to solve word problems involving multiplicative comparison.	● Write addition or multiplication equations given a comparison sentence. ●Write a comparison sentence given an addition or a multiplication equation. ● Solve comparison word problems involving multiplication.	I can use multiplication to compare two numbers.	-See Strategies for Differentiating Instruction to utilize during Math Centers -See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online platform -iReady for 40 minutes/week
Chapter 3	Chapter 3:	4.NBT.A.1 Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to	● Find the product of a one-digit number and a	I can use place value to multiply by tens, hundreds, or thousands.	-Whole Group Lesson

(16 days)	Lesson 2	its right. 4.NBT.B.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	multiple of ten, one hundred, or one thousand. ● Describe a pattern when multiplying by tens, hundreds, or thousands.		-Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform) -See Strategies for Differentiating Instruction to utilize during Math Centers -See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online platform -iReady for 40 minutes/week -Whole Group Lesson
Chapter 3	Chapter 3:	4.NBT.A.3 Use place value understanding to round multi-digit whole numbers to any place.	● Use rounding to estimate a product. ● Find two estimates that a product is between.	I can use rounding to estimate products.	-Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform) -See Strategies for Differentiating Instruction to utilize during Math Centers
(16 days)	Lesson 3	4.NBT.B.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	● Tell whether a product is reasonable.		-See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online platform -iReady for 40 minutes/week
Chapter 3	Chapter 3:	4.NBT.B.5 Multiply a whole number of up to four digits by a one-digit whole number, and	● Draw an area model to	I can use the Distributive Property to multiply	-Whole Group Lesson

(16 days)	Lesson 4	multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	multiply. ● Use known facts to find a product. ● Explain how to use the Distributive Property		-Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform) -See Strategies for Differentiating Instruction to utilize during Math Centers -See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online platform -iReady for 40 minutes/week -Whole Group Lesson
Chapter 3 (16 days)	Chapter 3: Lesson 5	4.NBT.B.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	● Use an area model to multiply. ● Use expanded form and the Distributive Property to find a product.	I can use expanded form and the Distributive Property to multiply.	-Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform) -See Strategies for Differentiating Instruction to utilize during Math Centers -See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online platform -iReady for 40 minutes/week -Whole Group Lesson
Chapter 3	Chapter 3:	4.NBT.A Generalize place value understanding for multi-digit	● Use place value to tell the value of each	I can use place value and partial products to multiply.	

(16 days)	Lesson 6	whole numbers. 4.NBT.B.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	digit in a number. ● Write the partial products for a multiplication problem. ● Add the partial products to find a product.		-Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform) -See Strategies for Differentiating Instruction to utilize during Math Centers -See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online platform -iReady for 40 minutes/week -Whole Group Lesson
Chapter 3 (16 days)	Chapter 3: Lesson 7	4.NBT.B.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	● Multiply to find the partial products. ● Show 10 ones regrouped as 1 ten. ● Find the product.	I can multiply two-digit numbers by one-digit numbers.	-Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform) -See Strategies for Differentiating Instruction to utilize during Math Centers -See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online platform -iReady for 40 minutes/week -Whole Group Lesson
Chapter 3	Chapter 3:	4.NBT.B.5 Multiply a whole number of up to four digits by a one-digit whole number, and	● Multiply to find the partial	I can multiply multi-digit numbers by one-digit numbers.	

(16 days)	Lesson 8	multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	products. ● Show how to regroup more than 10 tens. ● Find the product.		-Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform) -See Strategies for Differentiating Instruction to utilize during Math Centers -See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online platform -iReady for 40 minutes/week -Whole Group Lesson
Chapter 3 (16 days)	Chapter 3: Lesson 9	4.NBT.B.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	● Use the Commutative Property of Multiplication to multiply. ● Use the Associative Property of Multiplication to multiply. ● Use the Distributive Property to multiply.	I can use properties to multiply.	-Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform) -See Strategies for Differentiating Instruction to utilize during Math Centers -See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online platform -iReady for 40 minutes/week -Whole Group Lesson
Chapter 3	Chapter 3:	4.OA.A.3 Solve multistep word problems posed with whole numbers and having whole-	● Understand a problem.	I can solve multi-step word problems involving multiplication.	

(16 days)	Lesson 10	number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding. 4.NBT.B.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models. 4.NBT.A.1 Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right.	● Make a plan to solve using letters to represent the unknown numbers. ● Solve a problem using an equation. ● Use place value to multiply by multiples of ten.		-Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform) -See Strategies for Differentiating Instruction to utilize during Math Centers -See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online platform -Review & Chapter Assessment -iReady for 40 minutes/week -Chapter Opener -Whole Group Lesson -Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform)
Chapter 4 (14 days)	Chapter 4: Lesson 1	4.NBT.B.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	● Use the Associative Property to multiply by multiples of ten. ● Describe a pattern with zeros when multiplying by multiples of ten.	I can use place value and properties to multiply by multiples of ten.	-See Strategies for Differentiating Instruction to utilize during Math Centers -See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online

					platform -iReady for 40 minutes/week -Whole Group Lesson -Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform) -See Strategies for Differentiating Instruction to utilize during Math Centers -See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online platform
Chapter 4 (14 days)	Chapter 4: Lesson 2	4.NBT.A.3 Use place value understanding to round multi-digit whole numbers to any place. 4.NBT.B.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	● Use rounding to estimate a product. ● Use compatible numbers to estimate a product. ● Explain different ways to estimate a product.	I can use rounding and compatible numbers to estimate products.	
					-iReady for 40 minutes/week -Whole Group Lesson -Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform) -See Strategies for Differentiating Instruction to utilize during Math Centers -See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online
Chapter 4 (14 days)	Chapter 4: Lesson 3	4.NBT.B.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	● Use an area model to break apart the factors of a product. ● Relate an area model to partial products. ● Add partial products to find a product.	I can use area models and partial products to multiply.	

					platform -iReady for 40 minutes/week -Whole Group Lesson -Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform) -See Strategies for Differentiating Instruction to utilize during Math Centers -See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online platform
Chapter 4 (14 days)	Chapter 4: Lesson 4	4.NBT.B.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	● Use an area model and partial products to multiply. ● Use an area model and the Distributive Property to multiply.	I can use area models and the Distributive Property to multiply.	
		4.NBT.A Generalize place value understanding for multi-digit whole numbers.	● Use place value to tell the value of each digit in a number.		
Chapter 4 (14 days)	Chapter 4: Lesson 5	4.NBT.B.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	● Write the partial products for a multiplication problem. ● Add the partial products to find a product.	I can use place value and partial products to multiply.	

					platform -iReady for 40 minutes/week -Whole Group Lesson -Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform)
Chapter 4 (14 days)	Chapter 4: Lesson 6	4.NBT.B.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	● Multiply to find partial products. ● Show how to regroup ones, tens, and hundreds. ● Add partial products to find a product.	I can multiply two-digit numbers.	-See Strategies for Differentiating Instruction to utilize during Math Centers -See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online platform -iReady for 40 minutes/week -Whole Group Lesson -Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform)
Chapter 4 (14 days)	Chapter 4: Lesson 7	4.NBT.B.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	● Choose a strategy to multiply. ● Multiply two-digit numbers. ● Explain the strategy I used to multiply.	I can use strategies to multiply two-digit numbers.	-See Strategies for Differentiating Instruction to utilize during Math Centers -See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online

					platform -iReady for 40 minutes/week -Whole Group Lesson -Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform) -See Strategies for Differentiating Instruction to utilize during Math Centers -See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online platform -Review & Chapter Assessment -iReady for 40 minutes/week
Chapter 4 (14 days)	Chapter 4: Lesson 8	4.OA.A.3 Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding. 4.NBT.B.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	● Understand a problem. ● Make a plan to solve using letters to represent the unknown numbers. ● Solve a problem using an equation.	I can solve multi-step word problems involving two-digit multiplication.	

Strategies for Students in Need of Intervention

- Access on Big Ideas portal to prerequisite skills using Big Ideas curriculum for lower levels and higher levels
- Big Ideas Additional Topics & Lessons
- Big Ideas Differentiating the Lesson: Emerging
- Big Ideas Game Library
- Big Ideas Graphic Organizers
- Big Ideas Resources by Chapter: Extra Practice & Reteach
- Big Ideas Skills Review Handbook

- Big Ideas Vocabulary Flashcards
- Hands-on manipulatives
- iReady platform 40 minutes/week with individual learning paths for each student
- Teacher created materials

Technology Integration

Cool Math Games	http://www.coolmath-games.com/
Prodigy	https://www.prodigygame.com/
Fact Freaks	https://www.factfreaks.com/
LearnZillion	https://learnzillion.com/
Math Playground	http://www.mathplayground.com/grade_4_games.html
iReady Learning platform	Students can access through their Clever portal.

TECH.8.1.5.A.1	Select and use the appropriate digital tools and resources to accomplish a variety of tasks including solving problems.
TECH.8.1.5.A.3	Use a graphic organizer to organize information about problem or issue.
TECH.8.1.5.F.1	Apply digital tools to collect, organize, and analyze data that support a scientific finding.
TECH.8.2.5.D.3	Follow step by step directions to assemble a product or solve a problem.
TECH.8.2.5.E.4	Use appropriate terms in conversation (e.g., algorithm, program, debug, loop, events, procedures, memory, storage, processing, software, coding, procedure, and data).

Interdisciplinary Connections

- 4.M.A.2 Math/Science: Climate Change problem solvin--use the four operations to solve word problems related to the use of natural resources and involving distance, time, liquid volume, and/or the mass of objects.
- 4.NBT.2 Math/STEAM: Students will integrate science, technology, engineering, and/or art with math to develop a game that involves priority standards addressed in Unit #1
- 4.OA.3 Math/Music/Reading: Big Ideas Math Musicals
- 4.OA.3 Math/Science/Reading: Big Ideas STEAM Videos & Performance Tasks
- 4.OA.3 Math/Social Studies/Reading: Leveled Readers
- 4.OA.A.3 Math/Science: Climate Change problem solving--use the four operations to solve multi-step word problems posed with whole numbers, having whole-number answers and that are based on energy, fuels, and natural resources.
- W.4.7 Math/Social Studies: Provide examples on a famous mathematician

21st Century Life & Career Ready Practices

CRP.K-12.CRP2	Apply appropriate academic and technical skills.
CRP.K-12.CRP3	Attend to personal health and financial well-being.
CRP.K-12.CRP8	Utilize critical thinking to make sense of problems and persevere in solving them.
CRP.K-12.CRP11	Use technology to enhance productivity.
PFL.9.1.4.B	Money Management