Unit 1 (Ch 1-4)

Content Area:MathematicsCourse(s):Mathematics 4Time Period:SeptemberLength: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
		4.NBT.A.1 Recognize that in a multi-digit number, a digit in one place represents 10 times as much	• Identify the		-Chapter Opener
Chapter 1		as it represents in the place to its fright.	first six place value names.		Lesson
(11 days	Chapter 1:		 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	-Exit Tickets (4th grade shared folder Math
= 9 + 2 days for iReady testing)	Lesson 1	4.NBT.A.2		e the	already created or create your own online via Big
		Read and write multi-digit whole numbers using base ten numerals, number names and expanded			Ideas online platform)
		form. Compare two multi-digit numbers based on meanings of the			-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)

-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 are two already created or create your own online via Big Ideas online platform)

> -See Strategies for Differentiating

Chapter 1		4.NBT.A.2	• Write a number in standard form.	
(11 days = $9 + 2$ days for	Chapter 1: Lesson 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 district in such relaxensings	• Read and write a number in word form.	I can read and write multi-digit numbers in different forms.
iReady testing)		and < symbols to record the results of comparisons.	• Write a number in expanded form.	

= 9+2 Lesson 3 numbers based on meanings of the output of the symbols • Use the digits in each place, using >, =, symbols <, >, and < symbols to record the results and = to of comparisons. testing) of comparisons. compare two put of the symbols	Chapter 1 (11 days = 9 + 2 days for iReady testing)	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 result of comparisons.	 Explain how to compare two numbers with the same number of digits. Use the symbols <, >, s and = to compare two numbers 	I can use place value to con multi-digit numbers.
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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.

-iReady for 40 minutes/week

-Review & Chapter Assessment

-Chapter Opener

-Whole Group Lesson

-Exit Tickets (4th grade shared folder Math already created or

1 (11 days Chapter 4.NBT.A.3 1:

Chapter

Chapter

2

(11

days)

Chapter

Lesson 1

2:

(11 days 1: = 9 + 2days for iReady testing) Use place value understanding to use place value understanding to round multi-digit whole numbers to any place.

• Explain which digit I use to round and why.

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• Round a multi-digit number to any place.
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4.NBT.A.3

to any place.

• Use rounding to estimate a sum.

• Use rounding to estimate a difference. I can use rounding to estimate sums and differences.

I can use place value to round multi-

digit numbers.

4.NBT.B.4 With accuracy and

Use place value understanding to

round multi-digit whole numbers

Explain what

efficiency, add and subtract multi- happens when I digit whole numbers using the standard algorithm.

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)

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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.	 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.	Interentia Instruction utilize dur Math Cent -See Resor Chapter fo Skills & V Prerequisi Extra Prac Reteach, E and Extend Activities -Homewor lessons ma assigned v workbook through th Ideas onlin platform
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.	-iReady fo minutes/w -Whole Gr Lesson -Exit Tick grade shar folder Mat already cre

• Use place value to line up

the numbers in

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)

-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 2: (11 Lesson 4 algorithm. days)

Chapter

2

(11)

days)

Chapter

Lesson 5

2:

Chapter 4.NBT.B.4 Fluently add and subtract multi-digit whole numbers using the standard

4.NBT.B.4 With accuracy and

digit whole numbers using the

standard algorithm.

• Understand a problem. efficiency, add and subtract multi-

• Use strategies

to add multi-

digit numbers.

to subtract

multi-digit

numbers.

• 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.

I can use strategies to add and

• Use strategies subtract multi-digit numbers.

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)

-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

4.OA.A.1 Interpret a multiplication equation as a comparison. Represent verbal statements of multiplicative comparisons as multiplication equations.

(16 days) Lesson 1

Chapter

3

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.

Chapter Chapter 3 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

e that in a • Find the mber, a digit ts ten times one-digit the place to number and a

I can use place value to multiply by tens, hundreds, or thousands.

multiple of ten, one hundred, or one thousand.

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.

• 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

-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

4.NBT.A.3

Use place value understanding to round multi-digit whole numbers to any product. place. Chapter Chapter • Find two 3: product is Lesson 3 4.NBT.B.5 Multiply a whole between. number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place reasonable. 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

estimates that a I can use rounding to estimate products.

• Tell whether a product is

3 3:

3

(16

days)

Chapter Chapter 4.NBT.B.5 Multiply a whole number of up to four digits by a one-digit whole number, and

• Draw an area I can use the Distributive Property to model to multiply

(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 s, 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

-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
		rectangular arrays, and/or area models.

• Use an area model to multiply.

• Use expanded form and the Distributive Property to multiply. Property to find a product.

Chapter Chapter 3 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

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

-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

4.NBT.B.5 Multiply a whole number of up to four digits by a one-digit whole number, and Chapter Chapter multiply two two-digit numbers, 3 3: using strategies based on place value and the properties of (16 Lesson 7 operations. Illustrate and explain ten. days) the calculation by using equations, rectangular arrays, and/or area models.

• Multiply to find the partial products.

• Show 10 ones I can multiply two-digit numbers by regrouped as 1 one-digit numbers.

• Find the product.

3 3:

Chapter Chapter 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.

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(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, than 10 tens. rectangular arrays, and/or area models.

products.

• Show how to regroup more

> • 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

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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.	online via Ideas onli platform) -See Strat Differenti Instructio utilize du Math Cen -See Reso Chapter ff Skills & V Prerequis Extra Pra Reteach, I and Exter Activities
					-Homework lessons m assigned workbook through the Ideas onling platform
					-iReady f minutes/v
Chapter 3	Chapter 3:	4.OA.A.3 Solve multistep word problems posed with whole	• Understand a problem.	I can solve multi-step word problems involving multiplication.	-Whole G Lesson

numbers and having whole-

(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.

• Make a plan to solve using letters to represent the unknown numbers.

• Solve a problem using an equation.

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.

Chapter Chapter 4: 4.NBT.B.5 Multiply a whole number of up to four digits by a Lesson 1 days) 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.

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• Use place value to multiply by multiples of ten.

• 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.

-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)

-See Strategies for Differentiating Instruction to utilize during Math Centers

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-Homework by lessons may be assigned via the workbook or through the Big Ideas online

		4.NBT.A.3 Use place value understanding to round multi-digit whole numbers			-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 2	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.	-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
		4.NBT.B.5 Multiply a whole number of up to four digits by a	• Use an area model to break apart the factors of a product.		already created or create your own online via Big Ideas online platform) -See Strategies for Differentiating
Chapter 4 (14 days)	Chapter 4: Lesson 3	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	 Relate an area model to partial products. Add partial 	I can use area models and partial products to multiply.	Instruction to utilize during Math Centers -See Resources by Chapter for Daily
		models.	products to find a product.		Skills & Vocab, Prerequisite Skills, Extra Practice,

platform

-iReady for 40 minutes/week -Whole Group Lesson

5, 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 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.	 -Exit Tickets grade shared folder Math already create create your ov online via Big Ideas online platform) -See Strategie Differentiating Instruction to utilize during Math Centers -See Resource Chapter for D Skills & Voca Prerequisite S Extra Practice Reteach, Enri and Extend Activities -Homework b lessons may b assigned via t workbook or through the B Ideas online platform -iReady for 44 minutes/week -Whole Group Lesson
Chapter 4 (14 days)	Chapter 4: Lesson 5	 4.NBT.A Generalize place value understanding for multi-digit 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. 	 Use place value to tell the value of each digit in a number. 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.	-Exit Tickets (grade shared folder Math already create create your ov online via Big Ideas online platform) -See Strategie Differentiating Instruction to utilize during Math Centers -See Resource Chapter for D Skills & Voca Prerequisite S Extra Practice Reteach, Enri and Extend Activities

platform

-iReady for 40 minutes/week -Whole Group Lesson

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					already created create your owr online via Big Ideas online platform)
Chapter 4	Chapter	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,	 Multiply to find partial products. Show how to 		-See Strategies Differentiating Instruction to utilize during Math Centers
4 (14 days)	4: Lesson 6	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.	 Add partial products to find a product. 	I can multiply two-digit numbers.	-See Resources Chapter for Dai Skills & Vocab Prerequisite Ski 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 (4 grade shared

Chapter	Chapter	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	• Choose a strategy to multiply.		
4 (14	4: ¹	using strategies based on place value and the properties of operations. Illustrate and explain	• Multiply two- digit numbers.	I can use strategies to multiply two- digit numbers.	utilize Math
days)	Lesson /	on 7 operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	• Explain the strategy I used to multiply.		-See I Chapt Skills Prerec

platform

-iReady for 40 minutes/week -Whole Group Lesson

-Exit Tickets (4th grade shared folder Math or n

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łth folder Math already created or create your own online via Big Ideas online platform)

Strategies for rentiating action to e during Centers

Resources by ter for Daily & 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

					Lesson
		4.OA.A.3 Solve multistep word problems			-Exit Tickets (4th grade shared folder Math already created or
		having whole-number answers using the four operations, including problems in which remainders must be interpreted.			online via Big Ideas online platform)
		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	• Understand a problem.		-See Strategies for Differentiating Instruction to utilize during Math Centers
Chapter 4 (14 days)	Chapter 4: Lesson 8	ter 50 8 4.NBT.B.5 Multiply a whole number of up to four digits by a one-digit whole number, and	 Make a plan to solve using letters to represent the unknown numbers. Solve a 	I can solve multi-step word problems involving two-digit multiplication.	-See Resources by Chapter for Daily Skills & Vocab, Prerequisite Skills, Extra Practice, Reteach, Enrich and Extend
		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.	problem using an equation.		Activities -Homework by lessons may be assigned via the workbook or through the Big Ideas online platform

-Review & Chapter

-iReady for 40 minutes/week

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 ٠
- Big Ideas Differentiating the Lesson: Emerging •
- Big Ideas Game Library ٠
- **Big Ideas Graphic Organizers** ٠
- Big Ideas Resources by Chapter: Extra Practice & Reteach ٠
- Big Ideas Skills Review Handbook ٠

platform

-iReady for 40 minutes/week -Whole Group

platform

Assessment

- 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

PFL.9.1.4.E