# 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

MATH.4.OA.A. 2

MATH.4.OA.A. 3

MATH.4.NBT.A. 1

MATH.4.NBT.A. 2

MATH.4.NBT.A. 3
MATH.4.NBT.B. 4

MATH.4.NBT.B. 5

Interpret a multiplication equation as a comparison, e.g., interpret $35=5 \times 7$ as a statement that 35 is times as many as 7 and 7 times as many as 5 . Represent verbal statements of multiplicative comparisons as multiplication equations.

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.

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.

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.

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.

Use place value understanding to round multi-digit whole numbers to any place.
With accuracy and efficiency, add and subtract multi-digit whole numbers using the standard algorithm.

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?
- 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




|  |  |  |  |  | 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 <br> -Whole Group Lesson |
|  |  |  |  |  | -Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform) |
| Chapter 1 |  |  | - Explain which digit I |  | -See Strategies for Differentiating Instruction to utilize during Math Centers |
| (11 days $=9+2$ <br> days for iReady testing) | Chapter <br> 1: <br> Lesson 4 | 4.NBT.A. 3 <br> Use place value understanding to round multi-digit whole numbers to any place. | use to round and why. <br> - Round a multi-digit number to any place. | I can use place value to round multidigit 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 |
|  |  | 4.NBT.A. 3 | - Use rounding to estimate a |  | -Chapter Opener |
| Chapter $2$ | Chapter <br> 2 : | Use place value understanding to round multi-digit whole numbers to any place. | sum. <br> - Use rounding | use rounding to estimate sums | -Whole Group Lesson |
| (11 days) | Lesson 1 | 4.NBT.B. 4 With accuracy and | to estimate a difference. <br> - Explain what |  | -Exit Tickets (4th grade shared folder Math already created or |


|  |  | efficiency, add and subtract multidigit 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 <br> -Whole Group Lesson |
|  |  |  | - Use place |  | -Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform) |
| Chapter |  |  | value to line up the numbers in an addition problem. |  | -See Strategies for Differentiating Instruction to utilize during Math Centers |
| $2$ <br> (11 <br> days) | Chapter <br> 2: <br> Lesson 2 | 4.NBT.B. 4 With accuracy and efficiency, add and subtract multidigit whole numbers using the standard algorithm. | - Add multidigit numbers, regrouping when needed. <br> - 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 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 |  |  | - Use place value to line up |  | -Whole Group Lesson |
| $2$ <br> (11 <br> days) | 2 : <br> Lesson 3 | 4.NBT.B. 4 With accuracy and efficiency, add and subtract multidigit whole numbers using the standard algorithm. | the numbers in a subtraction problem. <br> - Subtract | I can subtract multi-digit numbers and check my answer. | -Exit Tickets (4th grade shared folder Math already created or |


|  |  |  | multi-digit numbers, regrouping when needed. |  | create your own online via Big Ideas online platform) |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | - Estimate a difference or use addition to check my answer. |  | -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 | apter |  | - Use strategies to add multidigit numbers. |  | -See Strategies for Differentiating Instruction to utilize during Math Centers |
| $\begin{aligned} & (11 \\ & \text { days } \end{aligned}$ | Lesson 4 | numbers using the standard algorithm. | - Use strategies to subtract multi-digit numbers. | subtract 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 |
|  |  |  | - Understand a problem. |  | -Whole Group Lesson |
| $2$ | Chapter $2:$ | efficiency, add and subtract multidigit whole numbers using the standard algorithm. | - Make a plan | I can use the problem-solving plan to solve two-step addition and | -Exit Tickets (4th |
| $\begin{aligned} & (11 \\ & \text { days) } \end{aligned}$ | Lesson 5 |  | to solve a problem using letters to |  | grade shared folder Math already created or |



| $\begin{aligned} & (16 \\ & \text { days } \end{aligned}$ | Lesson 2 | its right. <br> 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. <br> - 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) <br> -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 <br> -Whole Group Lesson |
|  |  | 4.NBT.A. 3 <br> Use place value understanding to round |  |  | -Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform) |
| Chapter |  | multi-digit whole numbers to any place. | - Use rounding to estimate a product. |  | -See Strategies for Differentiating Instruction to utilize during Math Centers |
| $3$ | Chapter 3: |  | - Find two estimates that a | I can use rounding to estimate |  |
| $\begin{aligned} & (16 \\ & \text { days } \end{aligned}$ | 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. | product is between. <br> - Tell whether a product is reasonable. |  | -See Resources by Chapter for Daily Skills \& Vocab, Prerequisite Skills Extra Practice, Reteach, Enrich and Extend Activities <br> -Homework by lessons may be assigned via the workbook or through the Big Ideas online platform |
|  |  |  |  |  | -iReady for 40 minutes/week |
| $\begin{aligned} & \text { Chapter } \\ & 3 \end{aligned}$ | $\begin{aligned} & \text { Chapter } \\ & 3 \text { : } \end{aligned}$ | 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 <br> Lesson |


| $\begin{aligned} & (16 \\ & \text { days } \end{aligned}$ | 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. <br> - Use known facts to find a product. <br> - 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) <br> -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 <br> -Whole Group Lesson |
|  |  |  |  |  | -Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform) |
| Chapter |  | 4.NBT.B. 5 Multiply a whole number of up to four digits by a one-digit whole number, and | - Use an area model to multiply. |  | -See Strategies for Differentiating Instruction to utilize during Math Centers |
| (16 days) | Lesson 5 | 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 expanded form and the Distributive Property to find a product. | I can use expanded form and the Distributive Property to multiply. | -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 <br> 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. | -Whole Group Lesson |


| $\begin{aligned} & (16 \\ & \text { days }) \end{aligned}$ | Lesson 6 | whole numbers. <br> 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. <br> - Write the partial products for a multiplication problem. <br> - 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) <br> -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 <br> -Whole Group Lesson |
|  |  |  |  |  | -Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform) |
| 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, | - Multiply to find the partial products. |  | -See Strategies for Differentiating Instruction to utilize during Math Centers |
| $\begin{aligned} & (16 \\ & \text { days) } \end{aligned}$ | 3: <br> Lesson 7 | 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. | - Show 10 ones regrouped as 1 ten. <br> - Find the product. | I can multiply two-digit numbers by one-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 |
| $\begin{aligned} & \text { Chapter } \\ & 3 \end{aligned}$ | Chapter <br> 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. | -Whole Group <br> Lesson |


| $\begin{aligned} & (16 \\ & \text { days) } \end{aligned}$ | 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. <br> - Show how to regroup more than 10 tens. <br> - 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 <br> -Whole Group Lesson |
|  |  |  |  |  | -Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform) |
| Chapter |  | 4.NBT.B. 5 Multiply a whole number of up to four digits by a one-digit whole number, and | Commutative Property of Multiplication to multiply. |  | -See Strategies for Differentiating Instruction to utilize during Math Centers |
| 3 <br> (16 <br> days) | 3: <br> Lesson 9 | 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. | Associative Property of Multiplication to multiply. <br> - Use the Distributive Property to multiply. | I can use properties to multiply. | -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 <br> 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. | -Whole Group Lesson |




|  |  |  |  |  | platform |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | -iReady for 40 minutes/week <br> -Whole Group Lesson |
|  |  |  |  |  | -Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform) |
| Chapter <br> 4 <br> (14 <br> days) | Chapter <br> 4: <br> 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. <br> - Use an area model and the Distributive Property to multiply. | I can use area models and the Distributive Property to multiply. | -See Strategies for Differentiating Instruction to utilize during Math Centers <br> -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 <br> -Whole Group Lesson |
|  |  | 4.NBT.A Generalize place value understanding for multi-digit whole numbers. | - Use place value to tell the value of each digit in a |  | -Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform) |
| Chapter $4$ | Chapter 4: | 4.NBT.B. 5 Multiply a whole number of up to four digits by a | number. <br> - Write the partial products for a | I can use place value and partial products to multiply. | -See Strategies for Differentiating Instruction to utilize during Math Centers |
| days) | Lesson 5 | 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. | multiplication problem. <br> - Add the partial products to find a product. |  | -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 |

-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 <br> 4 <br> (14 |  | 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. <br> - Show how to regroup ones, tens, and hundreds. <br> - Add partial products to find a product. | I can multiply two-digit numbers. | -See Strategies for Differentiating Instruction to utilize during Math Centers |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 4 \\ & \\ & (14 \\ & \text { days }) \end{aligned}$ | 4: <br> Lesson 6 |  |  |  | -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 <br> -Whole Group Lesson |
|  |  |  |  |  | -Exit Tickets (4th grade shared folder Math already created or create your own online via Big Ideas online platform) |
| Chapter <br> 4 | Chapter <br> 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 | - Choose a strategy to multiply. <br> - Multiply twodigit numbers. | I can use strategies to multiply twodigit numbers. | -See Strategies for Differentiating Instruction to utilize during Math Centers |
| days |  | the calculation by using equations, rectangular arrays, and/or area models. | - Explain the strategy I used to multiply. |  | -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 |



## 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 | http:///www.marnzillion.com/ |
| Math Playground | Students can access thround.com/grade_4_games.html |
| iReady Learning platform |  |

TECH.8.1.5.A. 1
Select and use the appropriate digital tools and resources to accomplish a variety of tasks including solving problems.

Use a graphic organizer to organize information about problem or issue.
Apply digital tools to collect, organize, and analyze data that support a scientific finding.
Follow step by step directions to assemble a product or solve a problem.
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

CRP.K-12.CRP3
CRP.K-12.CRP8
CRP.K-12.CRP11
PFL.9.1.4.B

Apply appropriate academic and technical skills.
Attend to personal health and financial well-being.
Utilize critical thinking to make sense of problems and persevere in solving them.
Use technology to enhance productivity.
Money Management

