Grade 6 Math Intervention

Content Area: **Mathematics**
Course(s):
Time Period: **Trimester 1**
Length: **5 months**
Status: **Published**

Summary

Students strengthen their skills associated with place value patterns, operations with whole numbers and decimals, operations with fractions, and geometric measurement, including volume. Students learn that each digit in a number represents ten times what it represents in the place to its right, and use this understanding to perform multi-digit arithmetic. They become proficient in multiplying and dividing multi-digit whole numbers and in adding, subtracting, multiplying, and dividing decimals to the hundredths place. Students also develop skills in performing operations with fractions, including addition, subtraction, multiplication, and division. They apply these operations to solve real-world problems involving fractions. Geometric measurement is another focus, where students learn to understand concepts of volume and calculate it. They use unit cubes to build a foundation for volume calculation and apply the volume formulas for these shapes. Overall, these standards aim to build a strong mathematical foundation and prepare students for more advanced concepts in middle school.

Written: June 2024

Essential Questions

- How can we understand and calculate volume using unit cubes and volume formulas?
- How do place value patterns assist in rounding and estimating numbers?
- How do we add, subtract, multiply, and divide decimals to the hundredths place accurately?
- How does understanding place value help in performing multi-digit arithmetic operations?
- In what ways can geometric measurement concepts, such as volume, be applied to solve practical problems?
- What are the key steps in performing operations with fractions, and how do these operations apply to real-world problems?
- What strategies can we use to multiply and divide multi-digit whole numbers effectively?

Enduring Understandings

- Performing operations with fractions, such as addition, subtraction, multiplication, and division, involves understanding fraction equivalence, finding common denominators, and applying these skills to solve real-world problems.
- Adding, subtracting, multiplying, and dividing decimals to the hundredths place requires a solid understanding of place value and the ability to align decimal points correctly during calculations.
- Concepts such as volume can be applied to solve practical problems, illustrating the importance of

geometric measurement in everyday situations and various fields.

- Effective strategies for multiplying and dividing multi-digit whole numbers include understanding the relationships between numbers, using place value, and applying standard algorithms.
- Grasping that each digit in a number represents ten times what it represents in the place to its right is crucial for performing and understanding multi-digit arithmetic operations.
- Place value patterns are essential for rounding and estimating numbers, helping to simplify complex calculations and making it easier to check the reasonableness of answers.
- Understanding the concept of volume involves using unit cubes to build a foundational understanding and applying volume formulas to calculate the space occupied by three-dimensional objects.

Students Will Know

- Each digit in a number represents ten times the value of the digit to its right, which is essential for performing and comprehending multi-digit arithmetic.
- Effective strategies for multiplying and dividing multi-digit whole numbers, including recognizing number relationships, utilizing place value, and applying standard algorithms.
- How to apply geometric measurement concepts, such as volume, to solve practical problems, highlighting the importance of these concepts in everyday situations and various fields.
- How to be proficient in adding, subtracting, multiplying, and dividing decimals to the hundredths place by understanding place value and properly aligning decimal points during calculations.
- How to perform operations with fractions, such as addition, subtraction, multiplication, and division, by understanding fraction equivalence, finding common denominators, and applying these skills to solve real-world problems.
- How to use place value patterns to round and estimate numbers, which helps simplify complex calculations and verify the reasonableness of answers.
- The concept of volume by using unit cubes to build foundational knowledge and applying volume formulas to determine the space occupied by three-dimensional objects.

Students Will Be Skilled At

- Analyzing real world applications with operations.
- Applying place value patterns.
- Calculating volume given real world applications.
- Estimating, comparing, and rounding decimals.
- Multi-digit arithmetic involving decimals.
- Multi-digit arithmetic involving whole numbers.
- Operations with fractions.

Standards

When addressing equality in the context of real world situations, the following is being addressed:

In accordance with New Jersey’s Chapter 32 Diversity and Inclusion Law, this unit includes instructional

materials that highlight and promote diversity, including:

economic diversity, equity, inclusion, tolerance, and belonging in connection with gender and sexual orientation, race and ethnicity, disabilities, and religious tolerance.

1	Make sense of problems and persevere in solving them
2	Reason abstractly and quantitatively
3	Construct viable arguments and critique the reasoning of others
4	Model with mathematics
	Developing and implementing an action plan is an essential step for achieving one's personal and professional goals.
5	Use appropriate tools strategically
5.NBT.A	Understand the place value system
5.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 and 1/10 of what it represents in the place to its left.
6	Attend to precision
5.NBT.A.2	Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.
7	Look for and make use of structure
5.NBT.A.3	Read, write, and compare decimals to thousandths.
5.NBT.A.3.a	Read and write decimals to thousandths using base-ten numerals, number names, and expanded form, e.g., 347.392 = 3 × 100 + 4 × 10 + 7 × 1 + 3 × (1/10) + 9 × (1/100) + 2 × (1/1000).
8	Look for and express regularity in repeated reasoning
5.NBT.A.3.b	Compare two decimals to thousandths based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons.
5.NBT.A.4	Use place value understanding to round decimals to any place.
5.NBT.B	Perform operations with multi-digit whole numbers & with decimals to hundredths
5.NBT.B.5	With accuracy and efficiency, multiply multi-digit whole numbers using the standard algorithm.
5.NBT.B.6	Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.
5.NBT.B.7	Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.
5.NF.A	Use equivalent fractions as a strategy to add and subtract fractions
5.NF.A.1	Add and subtract fractions with unlike denominators (including mixed numbers) by

	replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators.
5.NF.A.2	Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers.
5.NF.B	Apply and extend previous understandings of multiplication and division to multiply and divide fractions
5.NF.B.3	Interpret a fraction as division of the numerator by the denominator (□/□ = □ ÷ □). Solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers, e.g., by using visual fraction models or equations to represent the problem.
5.NF.B.4	Apply and extend previous understandings of multiplication to multiply a fraction or whole number by a fraction.
5.NF.B.4.a	Interpret the product (□/□) × □ as □ parts of a partition of □ into □ equal parts; equivalently, as the result of a sequence of operations □ × □ ÷ □.
5.NF.B.4.b	Find the area of a rectangle with fractional side lengths by tiling it with unit squares of the appropriate unit fraction side lengths, and show that the area is the same as would be found by multiplying the side lengths. Multiply fractional side lengths to find areas of rectangles, and represent fraction products as rectangular areas.
5.NF.B.5	Interpret multiplication as scaling (resizing), by:
5.NF.B.5.a	Comparing the size of a product to the size of one factor on the basis of the size of the other factor, without performing the indicated multiplication.
5.NF.B.5.b	Explaining why multiplying a given number by a fraction greater than 1 results in a product greater than the given number (recognizing multiplication by whole numbers greater than 1 as a familiar case); explaining why multiplying a given number by a fraction less than 1 results in a product smaller than the given number; and relating the principle of fraction equivalence □/□ = (□ × □)/(□ × □) to the effect of multiplying □/□ by 1.
5.NF.B.6	Solve real world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problem.
5.NF.B.7	Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions.
5.NF.B.7.a	Interpret division of a unit fraction by a non-zero whole number, and compute such quotients.
5.NF.B.7.b	Interpret division of a whole number by a unit fraction, and compute such quotients.
5.NF.B.7.c	Solve real world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions, e.g., by using visual fraction models and equations to represent the problem.
5.M.B	Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition
5.M.B.2	Recognize volume as an attribute of solid figures and understand concepts of volume measurement.
5.M.B.2.a	A cube with side length 1 unit, called a “unit cube,” is said to have “one cubic unit” of volume, and can be used to measure volume.
5.M.B.2.b	A solid figure which can be packed without gaps or overlaps using □ unit cubes is said to have a volume of □ cubic units.
5.M.B.3	Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and non-standard units.
5.M.B.4	Relate volume to the operations of multiplication and addition and solve real world and

	mathematical problems involving volume.
5.M.B.4.a	Find the volume of a right rectangular prism with whole-number side lengths by packing it with unit cubes, and show that the volume is the same as would be found by multiplying the edge lengths, equivalently by multiplying the height by the area of the base. Represent threefold whole-number products as volumes, e.g., to represent the associative property of multiplication.
5.M.B.4.b	Apply the formulas □ = □ × □ × □ and □ = □ × □ for rectangular prisms to find volumes of right rectangular prisms with whole-number edge lengths in the context of solving real world and mathematical problems.
5.M.B.4.c	Recognize volume as additive. Find volumes of solid figures composed of two non-overlapping right rectangular prisms by adding the volumes of the non-overlapping parts, applying this technique to solve real world problems.
	Constructing Explanations and Designing Solutions

Learning Plan

Unit 1

Week 1; Day 1 & 2 Place Value Relationships (Millions to Thousandths) & Patterns in Place Value

Day 1; Place Value Relationships (Millions to Thousandths)

Lesson

Open Up

- Place Value Patterns (Grade 5/Unit 6/Lesson 1)
- What is One Thousandth (Grade 5/Unit 5/Lesson 1)

Illustrative Mathematics

- Millions and Billions of People
- Which Number is It?

Big Ideas

- Resources (Answer Key)

IXL

- 1. Convert between standard and expanded form HU7

- 2. Place value 83P
- 3. Place values in decimal numbers X8U
- 4. Relationship between decimal place values DVM

Day 2; Patterns in Place Value

Lesson

Open Up

- Explore Place Value Relationships (Grade 5/Unit 5/Lesson 4)

iReady

- Ten Times as Much? (Answer Key)

Illustrative Mathematics

- Kipton's Scale
- Tenths and Hundredths

Hand 2 Mind

- Mini Lessons Book (grade 5) - Place Value in Decimals (pgs. 28-29) & Student Sheet (pgs. 113-114)
- Gr. 5 Intervention Book: Place Value Patterns (pgs. 18-19) & Student Sheet (pg. 57)

Big Ideas

- Resources (Answer Key)

IXL

- Skill F#3 (9DJ)
- Base-ten numerals

1. What decimal number is illustrated? CTP

- Number names

2. Understanding decimals expressed in words F9G

- Expanded form

3. Convert decimals between standard and expanded form WTU

4. Convert decimals between standard and expanded form using fractions BLQ

5. Compose and decompose decimals in multiple ways 7U9

Week 2; Day 1 & 2 Exponents and Powers of 10

Day 1 & 2; Powers of 10

Lesson (NJCTL)

Open Up

- Powers of 10 (Grade 5/Unit 6/Lesson 2)

iReady

- Powers of Ten
- Patterns of Zeros (Answer Key)

Big Ideas

- Resources (Answer Key)

Illustrative Mathematics

- Multiplying Decimals by 10

Hand 2 Mind

- Mini Lessons Book (grade 5) - Powers of 10 (pgs. 30-31) & Student Sheet (pg. 116)
- Mini Lessons Book (grade 5) - Powers of 10 with Exponents (pgs. 32-33) & Student sheet (pg. 112)
- Gr. 5 Number & Operations Intervention Book - Multiply by Powers of Ten (pgs. 20-21) & Student Sheet (pg. 58)

IXL

- Exponents and powers of ten

1. Understanding powers of ten 8HS

2. Evaluate powers of ten XTY

3. Write powers of ten with exponents KGQ

- Multiply by powers of ten

4. Multiply a whole number by a power of ten 92K

5. Multiply a decimal by a power of ten DN2

6. Multiply a decimal by a power of ten: with exponents 5KC

7. Multiply by 0.1 or 0.01 85W

8. Multiply by a power of ten with decimals: find the missing number GC5

- Divide by powers of ten

9. Divide by powers of ten H2N

10. Decimal division patterns over increasing place values GBS

11. Divide by a power of ten: with exponents CL2

12. Divide by a power of ten with decimals: find the missing number R2P

13. Divide by 0.1 or 0.01 WD7

- Multiply and divide by powers of ten

14. Multiply and divide by a power of ten: with exponents FXQ

Week 3; Day 1 & 2 Rounding Decimals

Day 1; Rounding Whole Numbers

Lesson

Open Up

- Round Doubloons (Grade 5/Unit 5/Lesson 7)

Hand2Mind

- Mini Lessons Book (grade 5) - Round Decimals

to the Nearest Tenth (pgs. 38-39) & Student Sheet (pg. 119)

Day 2; Rounding Decimals

Lesson (NJCTL)

Open Up

- Round Decimals (Grade 5/Unit 5/Lesson 8)

Illustrative Mathematics

- Rounding to Tenths and Hundredths

Hand2Mind

- Mini Lessons Book (grade 5) - Round Decimals Using Place Value (pgs. 40-41) & Student Sheet (pg. 120)
- Gr. 5 Number & Operations Intervention Book - Round Decimals to the Nearest Tenth (pgs. 28-29) & Student Sheet (pg. 63)
- Gr. 5 Number & Operations Intervention Book - Round Decimals to the Nearest Hundredth (pgs. 30-31) & Student Sheet (pg. 64)
- Round Decimals
- Round Decimals to Hundredths w. Models
- Round Decimals to Tenths w. Models
- Round and Sort to the Hundreth
- Round and Sort to the Tenth

Big Ideas

- Resources (Answer Key)

IXL

- 1. Round decimals MPB
- 2. Estimate sums and differences of decimals using rounding YGG

Week 4; Day 1 & 2 Decimal Representations

(Expanded, Standard, & Word Forms)

Day 1; Expanded, Standard, & Word Form

Lesson (NJCTL)

- Task Cards

Open up

- Thousandths on grids and in Words (Grade 5/Unit 5/Lesson 2)

iReady

- Read and Write Decimals to the Thousandths
- Decimals Number Forms (Answer Key)

Hand 2 Mind

- Mini Lessons Book (grade 5) - Read and Write Decimals (pgs. 34-35) & Student Sheet (pg. 117)
- Gr. 5 Number & Operations Intervention Book - Read and Write Decimals (pgs. 24-25) & Student Sheet (pgs. 60-61)

Day 2; Expanded, Standard, & Word Form

Lesson (NJCTL)

Open Up

- Thousandths in Expanded Form (Grade 5/Unit 5/Lesson 3)

Week 5; Day 1 & 2 Comparing & Ordering Decimals

Day 1; Comparing Decimals

Lesson (NJCTL)

Open Up

- Compare Decimals (Grade 5/Unit 5/Lesson 5)
- Compare Decimals on a Number Line (Grade 5/Unit 5/Lesson 6)

iReady

- Compare Decimals to Thousandths

Illustrative Mathematics

- Drawing Pictures to Illustrate Decimal Comparisons
- Are these equivalent to 9.52?
- Comparing Decimals on a Number Line
- Placing Thousandths on a Number Line

Hand2Mind

- Mini Lessons Book (grade 5) - Comparing Decimals (pgs. 36-37) & Student Sheet (pg. 118)
- Gr. 5 Number & Operations Intervention Book - Compare Decimals (pgs. 26-27) & Student Sheet (pg. 62)
- Comparing Decimals

Big Ideas

- Resources (Answer Key)

IXL

- 1. Compare decimals using grids QTG
- 2. Compare decimals on number lines CUF
- 3. Compare decimal numbers NSG

Day 2; Ordering Decimals

Lesson (NJCTL)

- Task Cards
- Race to 20

Open Up

- Order Decimals (Grade 5/Unit 5/Lesson 9)
- Solve Problems with Decimals (Grade 5/Unit 5/Lesson 10)

Hand2Mind

- Model and Order Decimals
- Order Decimals

Unit 2

Week 1; Day 1 & 2 Divisibility & Prime and Composite Numbers

Day 1; Divisibility Rules

Lesson (NJCTL)

Notes

Big Ideas

- Skills Review - Divisibility Tests (Answers)

IXL

- Divisibility rules UTK
- Divisibility rules for 3, 6, and 9 VEV
- Divisibility rules for 4 and 8 D82
- Divisibility rules for 2, 5, and 10 V6H

Day 2; Prime and Composite Numbers

Lesson

Activity

Open Up

- Prime and Composite Numbers

IXL

- 1. Prime and composite: up to 20 TNF
- 2. Prime and composite: up to 100 L9R

Week 2; Day 1 & 2 Prime Factorization
Day 1 & 2; Prime Factorization

Lesson

Manuevering the Middle

- Task Cards
- Digital Activity

Big Ideas

- Skills Review - Prime & Composite Numbers (Answers)

IXL

- Prime factorization 46F
- Prime factorization YL2

- Prime factorization 9CP
- Prime factorization with exponents WLU

Week 3; Day 1 & 2 Multiplication of Whole Numbers

Day 1; Multiplying Whole Numbers (2-digit x 3-digit)

Lesson (NJCTL)

Open Up

- Partial Products in Diagrams
- Partial Products in Algorithms
- Standard Algorithm: Multi-digit Numbers without Composing
- Standard Algorithm: Multi-digit Numbers with Composing
- The Birds
- World's Record Folk Dance

iReady

- Multiply Multi-Digit Whole Numbers
- Equivalent Multiplication Expressions (Answer Key)
- Use Multiplication Vocabulary (Answer Key)
- Multi-Digit Multiplication Fluency Practice (Answer Key)
- Equivalent Multiplication Expressions (Answer Key)
- Multiply Whole Numbers (Answer Key)

Illustrative Mathematics

- Elmer's Multiplication Error

Hand 2 Mind

- Mini Lessons Book - Multi-Digit Multiplication (pgs. 20-21) & Student Sheet (pgs. 108-109) (*This is 2-digit x 2-digit)
- Gr. 5 Number & Operations Intervention Book - Use Area Models to Multiply (pgs. 34-35) & Student Sheet (pg. 65)

- Gr. 5 Number & Operations Intervention Book - Multiply Multi-Digit Numbers (pgs. 36-37) & Student Sheet (pg. 66)

Big Ideas

- Resources (Answer Key)
- Skills Review - Multiplying Multi-Digit Whole Numbers (Answers)

IXL

- Multiply by 2-digit numbers

1. Multiply by 2-digit numbers: complete the missing steps 9LX

2. Multiply 2-digit numbers by 2-digit numbers LLJ

3. Multiply 2-digit numbers by 3-digit numbers JHB

4. Multiply 2-digit numbers by larger numbers 9VQ

5. Multiply by 2-digit numbers: word problems J95

Day 2; Multiplying Whole Numbers (3-digit x 4-digit)

Lesson

iReady

- Multi-Digit Multiplication Fluency Practice (Answer Key)
- Equivalent Multiplication Expressions (Answer Key)
- Designing a Home (Answer Key) *Enrichment Activity*

Hand 2 Mind

- Mini Lessons Book - Multi-Digit Multiplication Word Problems (pgs. 22-23) & Student Sheet (pg.110)

IXL

- Multiply by 3-digit numbers

6. Multiply by 3-digit numbers NSP

Week 4; Day 1 & 2 Division of Whole Numbers
Make sure students know the relationship between multiplication and division

Day 1; Division of Whole Numbers (1-digit divisors)

Lesson (NJCTL)

iReady

- Divide Multi-Digit Numbers (1-digit by 3-digit)
- Divide Multi-Digit Numbers (1-digit by 4-digit)
- Planning an Event (Answer Key) *Enrichment Activity*

Illustrative Mathematics

- What is 23 ÷ 5?

Hand 2 Mind

- Mini Lessons Book - Multiplication and Division Relationships (pgs. 26-27) & Student Sheet (pg.112)

Big Ideas

- Resources (Answer Key)

Day 2; Division of Whole Numbers (2-digit divisors)

Lesson (NJCTL)

Open Up

- Different Partial Quotients
- An Algorithm Using Partial Quotients
- Divide Using Partial Quotients
- Practice an Algorithm Using Partial Quotients
- Find Missing Side Lengths

iReady

- Divide Multi-Digit Numbers

- Division Fluency Practice (answer key)
- Division Fluency Practice #2 (answer key)
- Division Fluency Practice #3 (answer key)
- Division with Area Models (answer key)
- Solve Area Problems with Division (answer key)

Illustrative Mathematics

- Minutes and Days *this also requires metric conversions*

Hand 2 Mind

- Mini Lessons Book - Find and Explain Quotients (pgs. 24-25) & Student Sheet (pg.111)
- Gr. 5 Number & Operations Intervention Book - Divide Multi-Digit Numbers (pgs. 38-39) & Student Sheet (pg. 67)
- Gr. 5 Number & Operations Intervention Book - Solve Whole Number Multiplication and Division Problems (pgs. 40-41) & Student Sheet (pg. 68)

Big Ideas

- Activities
- Resources (Answer Key) 3 by 2 digit
- Resources (Answer Key) 4 by 2 digit
- Problem Solving (Answer Key)
- Skills Review - Dividing Multi-Digit Numbers (Answers)
- Skills Review - Interpreting Remainders (Answers)

IXL

- 2-digit and 3-digit dividends

1. Divide 2-digit and 3-digit numbers by 2-digit

numbers HMA

2. Divide 2-digit and 3-digit numbers by 2-digit numbers: word problems AJW

- 4-digit dividends

3. Divide 4-digit numbers by 2-digit numbers 35K

4. Divide 4-digit numbers by 2-digit numbers: word problems J8L

5. Choose numbers with a particular quotient FBX

- Strategies

6. Divide numbers ending in zeros J8Y

7. Divide numbers ending in zeros: word problems G66

8. Divide by 2-digit numbers using models AJA

9. Divide by 2-digit numbers using partial quotients ASM

10. Relate multiplication and division VA6

11. Multi-step word problems: multiplicative comparison V59

Week 5; Adding Decimals
Day 1 & 2; Adding Decimals

Lesson (NJCTL)

Manuevering the Middle

Task Cards

Digital Activity

Open Up

- Make Sense of Decimal Addition
- Analyze Addition Mistakes

iReady

- Adding Decimals - Tools for Instruction
- Decimal Addition Match (Answer Key)
- Addition Grids (Answer Key) *Enrichment Activity*
- Adding Decimals Fluency Practice (Answer Key)

Big Ideas

- Resources (Answer Key)
- Skills Review - Estimating Decimal Sums & Differences (Answers)
- Skills Review - Adding & Subtracting Decimals (Answers)

Hand2Mind

- Mini Lessons Book (grade 5) - Estimate Sums and Differences (pgs. 42-43) & Student Sheet (pg. 121)
- Mini Lessons Book (grade 5) - Add and Subtract Tenths and Hundredths (pgs. 46-47) & Student Sheet (pg. 123)

- Mini Lessons Book (grade 5) - Add and Subtract Decimals (pgs. 44-45) & Student Sheet (pg. 122)
- Mini Lessons Book (grade 6) - Decimal Operations (pgs. 30-31) & Student Sheet (pg. 112)
- Gr. 5 Number & Operations Intervention Book - Add Decimals to the Hundredths (pgs. 42-43) & Student Sheet (pg. 69)
- Add Decimals w. Models
- Add and Subtract Decimals
- Add and Subtract Decimals Word Problems P.1
- Add and Subtract Decimals Word Problems P.2

IXL

- 1. Add decimal numbers using blocks NWJ
- 2. Add decimal numbers BDX

Week 6; Day 1 & 2 Subtracting Decimals

Day 1; Subtracting Decimals

Lesson (NJCTL)

Manuevering the Middle

Task Cards

Digital Activity

Open up

- Make Sense of Decimal Subtraction

iReady

- Subtracting Decimals - Tools for Instruction
- Decimal Subtraction Match (Answer Key)
- Shopping Spree (Answer Key) *Enrichment Activity*
- Subtracting Decimals Fluency Practice (Answer Key)

Big Ideas

- Resources (Answer Key)
- Skills Review - Estimating Decimal Sums & Differences (Answers)
- Skills Review - Adding & Subtracting Decimals (Answers)

Hand2Mind

- Mini Lessons Book (grade 5) - Add and Subtract Decimals (pgs. 44-45) & Student Sheet (pg. 122)
- Mini Lessons Book (grade 5) - Add and Subtract Tenths and Hundredths (pgs. 46-47) & Student Sheet (pg. 123)
- Mini Lessons Book (grade 6) - Decimal Operations (pgs. 30-31) & Student Sheet (pg. 112)
- Gr. 5 Number & Operations Intervention Book

- Subtract Decimals to the Hundredths (pgs. 44-45) & Student Sheet (pg. 70)

- Model and Subtract Decimals
- Subtract Decimals
- Subtract Decimals from Whole Numbers

Day 2; Add and Subtract Decimals

Lesson (word problems in this presentation)

Open Up

- Addition and Subtraction

iReady

- Decimal Sums and Differences (Answer Key)
- Reteach (Answer Key)
- Practice (Answer Key)

Big Ideas

- Add and Subtract Resources (Answer Key)
- Problem Solving Money (Answer Key)

Hand2Mind

- Mini Lessons Book (grade 5) - Add and Subtract Tenths and Hundredths (pgs. 46-47) & Student Sheet (pg. 123)
- Add and Subtract Decimals
- Add and Subtract Decimals Word Problems P.1
- Add and Subtract Decimals Word Problems P.2

IXL

3. Subtract decimal numbers using blocks V5T

4. Subtract decimal numbers SC8

- Add and Subtract

5. Add and subtract decimal numbers 7VJ

6. Add and subtract decimals: word problems 35U

7. Choose decimals with a particular sum or difference ARW

8. Complete the decimal addition or subtraction sentence ZKV

9. Add and subtract money amounts A8R

10. Add and subtract money: word problems DLC

11. Keeping financial records FAZ

Week 7; Day 1 & 2 Multiplying Decimals

Day 1; Multiplying Decimal by a Whole Number

Lesson (NJCTL)

Manuevering the Middle

Task Cards

Digital Activity

Open Up

- Multiply Decimals and Whole Numbers
- Use Whole Number Facts
- Use Properties to Multiply Decimals

iReady

- Represent Decimal Products (Answer Key)
- Multiply Decimals Practice (Answer Key)

Illustrative Mathematics

Hand 2 Mind

- Mini Lessons Book (grade 5) - Multiply and Divide (pgs. 48-49) & Student Sheet (pg. 124)
- Mini Lessons Book (grade 6) - Decimal Operations (pgs. 30-31) & Student Sheet (pg. 112)

Big Ideas

- Resources (Answer Key)

IXL

- 12. Multiply a decimal by a one-digit whole number using blocks U5Q
- 13. Multiply a decimal by a one-digit whole number using the distributive property 9BA
- 14. Multiply a decimal by a one-digit whole number XNY
- 15. Multiply a decimal by a two-digit whole

number using area models VNT

- 16. Multiply a decimal by a multi-digit whole number PGM
- 17. Multiply decimals and whole numbers: word problems 83A
- 18. Multiply three or more numbers, one of which is a decimal ZNW
- 19. Multiply money amounts: word problems U5L

Day 2; Multiplying Decimal by a Decimal

Lesson (NJCTL)

Open Up

- Products in the Hundredths Place
- Multiply More Decimals

iReady

- Multiply Decimals

Big Ideas

- Race Around the World
- Skills Review - Multiplying Decimals (Answers)

Hand2Mind

- Mini Lessons Book (grade 5) - Multiply and Divide (pgs. 48-49) & Student Sheet (pg. 124)
- Mini Lessons Book (grade 6) - Decimal Operations (pgs. 30-31) & Student Sheet (pg. 112)
- Gr. 5 Number & Operations Intervention Book - Multiply Decimals (pgs. 46-47) & Student Sheet (pg. 71)
- Multiply Decimals w. Area Models

- Model and Multiply Decimals

IXL

- 20. Complete the decimal multiplication sentence using grids R9T
- 21. Multiply decimals using grids 66Z
- 22. Multiply two decimals: where does the decimal point go? 6FA
- 23. Multiply two decimals: products up to hundredths FLL
- 24. Multiply two decimals: products up to thousandths TDG

Week 8; Day 1 & 2 Dividing Decimals

Day 1; Dividing a Decimal by a Whole Number Divisor

Lesson (NJCTL)

Manuevering the Middle

Task Cards

Digital Activity

Open Up

- Divide Whole Numbers by 0.1 and 0.01
- Divide Whole Numbers by Decimals
- Divide Decimals by Whole Numbers

iReady

- Practice (Answer Key)

Illustrative Mathematics

Hand 2 Mind

- Mini Lessons Book (grade 5) - Multiply and Divide (pgs. 48-49) & Student Sheet (pg. 124)
- Mini Lessons Book (grade 6) - Decimal Operations (pgs. 30-31) & Student Sheet (pg. 112)
- Gr. 5 Number & Operations Intervention Book - Divide Decimals (pgs. 48-49) & Student Sheet (pg. 72)
- Gr. 5 Number & Operations Intervention Book - Solve Decimal Multiplication and Division Problems (pgs. 50-51) & Student Sheet (pg. 73)

Big Ideas

- Resources (Answer Key)

IXL

- 25. Divide decimals using blocks: complete the equation DDK
- 26. Divide decimals using area models:

complete the equation U6C

- 27. Division with decimal quotients J9Z
- 28. Division with decimal quotients and rounding M9X
- 29. Division with decimal quotients: word problems Z2X
- 30. Divide by decimals without adding zeros RTS
- 31. Divide by decimals 8FT
- 32. Divide money amounts: word problems 2RU

Day 2; Dividing a Decimal by a Decimal Divisor

Lesson (NJCTL)

Open Up

- Divide Decimals by Decimals
- Book Drive (Uses all operations)

Illustrative Mathematics

- The Value of Education *this has adding, subtracting, multiplying, & dividing decimals*

Big Ideas

- Activities
- Resources (Answer Key)
- Problem Solving (Answer Key)
- Skills Review - Dividing Decimals (Answers)

Hand2Mind

- Mini Lessons Book (grade 5) - Multiply and Divide (pgs. 48-49) & Student Sheet (pg. 124)
- Mini Lessons Book (grade 6) - Decimal

Operations (pgs. 30-31) & Student Sheet (pg. 112)

- Divide Decimals w. Area Models

IXL

- Mixed operations

33. Add, subtract, multiply, and divide decimals NZG

34. Add, subtract, multiply, and divide decimals: word problems 7SX

Unit 3

Week 1; Day 1 & 2 Equivalent Fractions & Adding Fractions

Day 1; Finding Equivalent Fractions (5.NF.A)

Lesson (NJCTL)

Maneuvering the Middle

- Task Cards
- Digital Activity

Open Up

- Use Equivalent Expressions
- All Sorts of Denominators

iReady

- Equivalent Fractions Lesson

Illustrative Mathematics

- Explaining Fraction Equivalence with Pictures
- Fractions and Rectangles

IXL

- Equivalent fractions: find the missing numerator or denominator 7CY
- Equivalent Fractions MKA
- Equivalent Fraction Bingo

Day 2; Adding Fractions (5.NF.A.1)

Lesson (NJCTL)

Maneuvering the Middle

- Task Cards
- Digital Activity

Open Up

- Add & Subtract Fractions
- Put it All Together; Add & Subtract Fractions

iReady

- Adding Fractions Teaching Slides #1
- Adding Fractions Teaching Slides #2
- Fluency & Skills Practice (Answers)
- Add Fractions with Unlike Denominators Lesson
- Add & Subtract Fractions Lesson
- Fraction Addition;True or False? (Answers)
- Addition Grids (Answers)

Illustrative Mathematics

- Egyptian Fractions
- Finding Common Denominators to Add
- Jog-A-Thon

Hand2Mind

- Mini Lessons Book (grade 5) - Add & Subtract Fractions (pgs. 52-53) & Student Sheet (pg. 125)
- Gr. 5 Fractions Intervention Book - Add Unlike Fractions (pgs. 8-9) & Student Sheet (pg. 50)
- Gr. 5 Fractions Intervention Book - Find Common Denominators to Add (pgs. 810-11) & Student Sheet (pg. 51)

IXL

- Add fractions

1. Add fractions with unlike denominators using models

2BS

2. Add fractions with unlike denominators D9N

3. Add 3 or more fractions with unlike denominators PBF

Week 2; Day 1 & 2 Adding Mixed Numbers & Subtracting Fractions

Day 1; Adding Mixed Numbers (5.NF.A.1)

Lesson (NJCTL)

Maneuvering the Middle

- Task Cards
- Digital Activity

iReady

- Adding Fractions Teaching Slides #1
- Adding Fractions Teaching Slides #2
- Fluency & Skills Practice (Answers)
- Add & Subtract Mixed Numbers Lesson

Illustrative Mathematics

- Mixed Numbers with Unlike Denominators

Hand2Mind

- Gr. 5 Fractions Intervention Book - Add Mixed Numbers (pgs. 12-13) & Student Sheet (pg. 52)

IXL

- 7. Add mixed numbers with unlike denominators FHD

Day 2; Subtracting Fractions (5.NF.A.1)

Lesson (NJCTL)

Maneuvering the Middle

- Task Cards
- Digital Activity

Open Up

- Add & Subtract Fractions (same lesson as above)
- Put it All Together; Add & Subtract Fractions (same lesson as above)

iReady

- Subtracting Fractions Lesson #1
- Subtracting Fractions Lesson #2
- Fluency & Skills Practice #1 (Answers)
- Fraction Subtraction;True or False

Illustrative Mathematics

- Finding Common Denominators to Subtract
- Making S'Mores

Hand2Mind

- Mini Lessons Book (grade 5) - Add & Subtract Fractions (pgs. 52-53) & Student Sheet (pg. 125)
- Gr. 5 Fractions Intervention Book - Subtract Unlike Fractions (pgs. 14-15) & Student Sheet (pg. 53)
- Gr. 5 Fractions Intervention Book - Find Common Denominators to Subtract (pgs. 18-19) & Student Sheet (pg. 55)

IXL

- Subtract fractions

4. Subtract fractions with unlike denominators using models QA6

5. Subtract fractions with unlike denominators VSP

6. Complete addition and subtraction sentences with fractions FCA

Week 3; Day 1 & 2 Subtract mixed Numbers & Word Problems

Day 1; Subtracting Mixed Numbers (5.NF.A.1)

Lesson (NJCTL)

Maneuvering the Middle

- Task Cards
- Digital Activity

Open Up

- Different Ways to Subtract

iReady

- Subtracting with Mixed Numbers Lesson #1
- Subtracting with Mixed Numbers Lesson #2
- Fluency & Skills Practice (Answers)
- Subtract Fractions & Mixed Numbers with Unlike Denominators
- Race Training

Hand2Mind

- Gr. 5 Fractions Intervention Book - Subtract Mixed Numbers (pgs. 16-17) & Student Sheet (pg. 54)

IXL

- 8. Subtract mixed numbers with unlike denominators FAA

Day 2; Adding & Subtracting Fractions Word Problems (5.NF.A.2)

Lesson

Maneuvering the Middle

- Task Cards
- Digital Activity

Open Up

- Solve Problems

iReady

- Adding & Subtracting Fraction Word Problems Lesson #1
- Estimating in Word Problems with Fractions Lesson
- Adding & Subtracting in Word Problems
- Fluency & Skills Practice #1 (Answers)
- Solve Word Problems with Fractions & Decimals
- Estimate Fraction Sums & Differences
- Baking Cookies

Hand2Mind

- Mini Lessons Book (grade 5) - Fraction Word Problems: Add & Subtract (pgs. 54-55) & Student Sheet (pg. 126)
- Gr. 5 Fractions Intervention Book - Fraction Addition Word Problems (pgs. 20-21) & Student Sheet (pg. 56)
- Gr. 5 Fractions Intervention Book - Fraction Subtraction Word Problems (pgs. 22-23) & Student Sheet (pg. 57)
- Gr. 5 Fractions Intervention Book - Fraction Addition and Subtraction Word Problems (pgs. 24-25) & Student Sheet (pg. 58)

IXL

- 9. Complete addition and subtraction sentences with mixed numbers PSP
- 3. Add and subtract fractions with unlike denominators: word problems TCD

- 4. Add 3 or more fractions: word problems BFQ
- 5. Add and subtract mixed numbers: word problems 6BH
- 6. Add and subtract fractions and mixed numbers in recipes W9K

Week 4; Day 1 & 2 Multiply Fractions

Day 1; Multiply a Fraction by a Whole Number (5.NF.4a)

Lesson (NJCTL)

Maneuvering the Middle

- Task Cards
- Digital Activity

Open Up

- Multiplication by a Fraction Lesson #1

iReady

- Multiply a Whole Number by a Fraction

Multiply a Whole Number and a Fraction

Illustrative Mathematics

- Sharing Lunches
- Connor and Makayla Discuss Multiplication
- Cornbread Fundraiser

Hand2Mind

- Mini Lessons Book (grade 5) - Multiply Fractions by Whole Numbers (pgs. 58-59) & Student Sheet (pg. 128)
- Gr. 5 Fractions Intervention Book - Multiply a Fraction by a Whole Number (pgs. 32-33) & Student Sheet (pg. 61)
- Gr. 5 Fractions Intervention Book - Use a Number Line to Multiply Fractions (pgs. 34-35)

& Student Sheet (pg. 62)

IXL

- Multiply fractions by whole numbers

1. Multiply fractions by whole numbers using arrays RB9

2. Fractions of a number: model and multiply 77G

3. Multiply fractions by whole numbers I QFQ

4. Multiply fractions by whole numbers II 69L

5. Fractions of a number I AHX

6. Fractions of a number: word problems LPC

7. Fractions of a number II 8DG

8. Multiply fractions by whole numbers: input/output tables 2KU

Day 2; Multiply a Fraction by a Fraction (5.NF.4a)

Lesson (NJCTL)

Maneuvering the Middle

- Task Cards
- Digital Activity

Open Up

- One Piece of One Part
- Represent Unit Fraction Multiplication
- Multiply Unit Fractions
- Situations About Multiplying Fractions
- Multiply a Unit Fraction by a Non-unit Fraction

iReady

- Understanding of Multiplying by a Fraction

Lesson

- Ideas About Multiplying by a Fraction Lesson
- Fluency & Skills Practice (Answers)
- Understand Fraction Multiplication
- Understand Fraction Multiplication
- Flower Garden (Answers)

Illustrative Mathematics

- Folding Strips of Paper
- Painting a Wall

Hand2Mind

- Mini Lessons Book (grade 5) - Multiply Two Fractions (pgs. 60-61) & Student Sheet (pgs. 129-130)
- Gr. 5 Fractions Intervention Book - Use an Area Model to Multiply Fractions (pgs. 36-37) & Student Sheet (pg. 63)
- Gr. 5 Fractions Intervention Book - Use a Set Model to Multiply Fractions (pgs. 38-39) & Student Sheet (pg. 64)

IXL

- Multiply two fractions

9. Multiply two unit fractions using models HDJ

10. Multiply two fractions using models UAY

11. Multiply two fractions 8KV

Week 5; Day 1 & 2 Multiply Fractions & Area

Day 1; Multiply a Fraction by a Mixed Number (5.NF.4a)

Lesson (NJCTL)

Maneuvering the Middle

- Task Cards

- Digital Activity

Illustrative Mathematics

- Mrs. Gray's Homework Assignment
- Cross Country Training

Hand2Mind

- Gr. 5 Fractions Intervention Book - Multiply Mixed Numbers (pgs. 40-41) & Student Sheet (pg. 65)

IXL

- Multiply mixed numbers

12. Multiply a mixed number by a whole number 6Q4

13. Multiply a mixed number by a fraction G7W

14. Multiply two mixed numbers P73

Day 2; Area with Fractional Side Lengths (5.NF.B.4)

Lesson

Open Up

- Multiply Fractions
- Generalize Fraction Multiplication
- Apply Fraction Multiplication

iReady

- Multiplying Fractions to Find Area Lesson
- Multiply Unit Fractions to Find Area Lesson
- Multiply Fractions to Find Area Lesson
- Tiling a Rectangle to Find Area Lesson
- Fluency & Skills Practice #1 (Answers)
- Fluency & Skills Practice #2 (Answers)

- Multiply Fractions Activity
- Fraction Area Models (Answers)
- Tile Dimensions (Answers)
- Colorful Quilts (Answers)

Illustrative Mathematics

- Chavone's Bathroom Tiles
- Connecting the Area Model to Context
- New Park

IXL

- Multiply fractions with models

1. Multiply two unit fractions using models HDJ

2. Multiply two fractions using models UAY

- Area and perimeter

3. Understand fraction multiplication and area NFK

4. Multiply fractions to find area SEZ

5. Area of rectangles with fractions 64E

6. Area of rectangles with fractions and mixed numbers PMV

7. Area and perimeter: word problems MHV

Week 6; Day 1 & 2 Scaling Fractions & Word Problems

Day 1; Scaling Fractions

Lesson

Maneuvering the Middle

- Task Cards
- Digital Activity

Open Up

- Compare Products

- Interpret Diagrams
- Compare Without Multiplying
- Compare to 1
- Will it Always Work?

iReady

- Understand Multiplication as Scaling Lesson
- Understanding of Multiplication as Scaling Lesson
- Ideas About Multiplication as Scaling Lesson
- Fluency & Skills Practice (Answers)
- Understand Multiplication as Scaling Activity
- Multiplication as Scaling Center Activity (Answers)
- Multiplication as Scaling Vocabulary Activity (Answers)
- Stretching & Shrinking (Answers)

Illustrative Mathematics

- Running a Mile
- Reasoning about Multiplication
- Grass Seedlings
- Fundraising
- Calculator Trouble
- Comparing a Number and a Product
- Comparing Heights of Buildings
- Scaling Up and Down

IXL

- 1. Scaling whole numbers by fractions QH2
- 2. Scaling fractions by fractions 9RF

- 3. Scaling mixed numbers by fractions S6B
- 1. Scaling whole numbers by fractions: justify your answer Q7M

Day 2; Multiplying Fraction Word Problems

Lesson

Maneuvering the Middle

- Task Cards
- Digital Activity

iReady

- Multiplying Fractions in Word Problems Lesson
- Multiplying Fractions in Word Problems Lesson
- Multiplying with Mixed Numbers in Word Problems Lesson
- Multiplying with Mixed Numbers in Word Problems Lesson
- Multiplying Fractions in Word Problems Lesson
- Fluency & Skills Practice #1 (Answers)
- Fluency & Skills Practice #2 (Answers)
- Fluency & Skills Practice #3 (Answers) *Mixed Numbers*
- Multiplying Fractions to Find Word Problems Activity
- Write a Word Problem (Answers)
- Real World Multiplication Situations (Answers)
- Plant Growth (Answers)

Illustrative Mathematics

- Running to School
- Drinking Juice
- Half of a Recipe
- Making Cookies
- To Multiply or not to multiply?
- To Multiply Or Not to Multiply, Variation 2

Hand2Mind

- Gr. 5 Fractions Intervention Book - Solve Fraction Multiplication Word Problems (pgs. 42-43) & Student Sheet (pg. 66)

IXL

- Fractions

1. Multiply fractions by whole numbers: word problems U2V

2. Multiply two fractions: word problems 38Y

- Mixed numbers

3. Multiplication with mixed numbers: word problems 5W6

4. Multiply fractions and mixed numbers in recipes QHN

Week 7; Day 1 & 2 Division with Fractions

Day 1; Interpret a Fraction as Division (5.NF.B.3)

Lesson

Maneuvering the Middle

- Task Cards
- Digital Activity

Open Up

- Concepts of Division

iReady

- Fractions as Division Lesson #1
- Fractions as Division Lesson #2
- Fractions as Division Lesson #3
- Fluency & Skills Practice (Answers)
- Interpreting Fractions as Division
- Fractions as Quotients
- Relate Situations to Fractional Quotients
- Pizza Party (Answers)

Illustrative Mathematics

- What is 23 ÷ 5?
- Converting Fractions of a Unit into a Smaller Unit
- How Much Pie?

Hand2Mind

- Mini Lessons Book (grade 5) - Fractions as Division (pgs. 56-57) & Student Sheet (pg. 127)
- Gr. 5 Fractions Intervention Book - Fractions as Division (pgs. 28-29) & Student Sheet (pg. 59)
- Gr. 5 Fractions Intervention Book - Whole Number Division with Fractional Answers (pgs. 30-31) & Student Sheet (pg. 60)

IXL

- 1. Relate division and fractions D86
- 2. Understand fractions as division: word problems CTD
- 3. Fractions of a whole: word problems 2VP

Day 2; Divide a Fraction by a Whole Number

Lesson

Maneuvering the Middle

- Task Cards
- Digital Activity

Open Up

- Divide Unit Fractions by Whole Numbers
- Represent Division of Unit Fractions by Whole Numbers
- Divide Whole Numbers by Unit Fractions
- Represent Division of Whole Numbers by Unit Fractions
- Fraction Division Situations
- Reason About Quotients
- Fraction Multiplication and Division Situations
- Represent Situations with Multiplication and Division
- Fraction Games

iReady

- Division of Unit Fractions Lesson
- Understanding of Division with Unit Fractions Lesson
- Ideas About Division with Unit Fractions Lesson
- Fluency & Skills Practice (Answers)
- Dividing with Unit Fractions Activity
- Quotiens; Greater than 1 or Less Than 1? (Answers)
- Mystery Equation (Answers)

Illustrative Mathematics

- Dividing by One-Half
- How many servings of oatmeal?
- Standing in Line
- Painting a room
- Origami Stars
- How many marbles?
- Salad Dressing
- Banana Pudding

Hand2Mind

- Mini Lessons Book (grade 5) - Divide a Unit Fraction by a Whole Number (pgs. 64-65) & Student Sheet (pg. 132)
- Mini Lessons Book (grade 5) - Divide a Whole Number by a Unit Fraction (pgs. 66-67) & Student Sheet (pgs. 133-134)
- Gr. 5 Fractions Intervention Book - Divide a Whole Number by a Unit Fraction (pgs. 44-45) & Student Sheet (pg. 67)
- Gr. 5 Fractions Intervention Book - Divide a Unit Fraction by a Whole Number (pgs. 46-47) & Student Sheet (pg. 68)
- Gr. 5 Fractions Intervention Book - Solve Division Word Problems (pgs. 48-49) & Student Sheet (pg. 69)

IXL

- 1. Divide unit fractions by whole numbers using models XML
- 2. Divide unit fractions by whole numbers GXY
- 1. Divide whole numbers by unit fractions using models VDU
- 2. Divide unit fractions and whole numbers using area models A7W

- 3. Divide unit fractions and whole numbers using number lines BF7
- 4. Divide whole numbers by unit fractions 3L9
- 1. Divide unit fractions and whole numbers: word problems G2N

Unit 4

Week 1; Day 1 & 2 Volume & Unit Cubes

Day 1; What is the Volume of a Unit Cube?

Lesson (Intro Lesson)

Open Up

- What is Volume?

iReady

- Understanding Volume Teaching Slides #1
- Understanding Volume Teaching Slides #2
- Understanding Volume Teaching Slides #3
- Fluency & Skills Practice #1 (Answers)
- Volume Concepts Lesson
- Use Volume Vocabulary (Answers)

Day 2; Volume Using Unit Cubes

Lesson

Open Up

- Measure Volume
- Volumes of Prism Drawings
- Use Layers to Determine Volume

iReady

- Build a Rectangular Prism (Answers)
- Guess My Figure (Answers)
- Finding Volume Using Unit Cubes Teaching Slides #1
- Finding Volume Using Unit Cubes Teaching Slides #2
- Finding Volume Using Unit Cubes Teaching

Slides #3

- Fluency & Skills Practice (Answers)
- Measure Volume Lesson
- Same Volume, Different Shape (Answer)
- Find the Prism (Answers)
- Packing Boxes (Answers)

Hand2Mind

- Gr. 5 Mini-Lesson Book - Find Volume Using Unit Cubes (pgs. 74-75) & Student Sheet (pg. 137)
- Gr. 5 Mini-Lesson Book - Volume of a Rectangular Solid (pgs. 76-77) & Student Sheet (pg. 138)
- Gr. 5 Geometry, Measurement, & Data Intervention Book - Measure Volume by Counting (pgs. 26-27) & Student Sheet (pg. 60)
- Gr. 5 Geometry, Measurement, & Data Intervention Book - Compare Volume (pgs. 28-29) & Student Sheet (pg. 61)
- Gr. 5 Geometry, Measurement, & Data Intervention Book - Find Volume (pgs. 30-31) & Student Sheet (pg. 62)

IXL

- 1. Volume of rectangular prisms made of unit cubes WG8
- 1. Volume of rectangular prisms made of unit cubes: expressions Q84

Week 2; Day 1 & 2 Volume Formula
Day 1 & 2; Volume Formula (LxWxH) or (BxH)

Lesson (NJCTL)

Maneuvering the Middle

- Task Cards (Set 1)
- Digital Activity

Open Up

- Side Lengths of Rectangular Prisms
- Expressions for Volume
- Cubic Units of Measure

iReady

- Finding Volume Using Formulas Teaching Slides #1
- Finding Volume Using Formulas Teaching Slides #2
- Finding Volume Using Formulas Teaching Slides #3
- Finding Volume Using Formulas Teaching Slides #4
- Fluency & Skills Practice (Answers)
- Fluency & Skills Practice (Answers)
- Calculate Volume Lesson
- Use Volume Vocabulary (Answers)

Illustrative Mathematics

- Cari's Aquarium
- You can Multiply Three Numbers in Any Order
- Using Volume to Understand the Associative

Property of Multiplication

Hand2Mind

- Gr. 5 Mini-Lesson Book - Estimate and Measure Volume (pgs. 78-79) & Student Sheet (pg. 139)
- Gr. 5 Mini-Lesson Book - Find Volume with the Associative Property (pgs. 80-81) & Student Sheet (pg. 140)
- Gr. 5 Mini-Lesson Book - Volume Formulas (pgs. 82-83) & Student Sheet (pg. 141)
- Gr. 5 Geometry, Measurement, & Data Intervention Book - Volume Formula (pgs. 32-33) & Student Sheet (pg. 63)

IXL

- 3. Volume of rectangular prisms made of unit cubes: word problems QMA
- 1. Volume of cubes and rectangular prisms TFL
- 2. Volume of cubes and rectangular prisms: word problems NR6
- 3. Compare volumes and dimensions of rectangular prisms: word problems JP6

Week 3; Day 1 & 2 Composite Figures

Day 1 & 2; Volume of Composite Figures

Lesson

Open Up

- Figures Made of Prisms
- Measure Figures Made From Prisms
- Represent Volume with Expressions
- All Kinds of Prisms
- Lots and Lots of Garbage

iReady

- Finding Volume of Composite Figures (Answers)
- Swimming Pools (Answers)

Illustrative Mathematics

- Breaking Apart Composite Solids

Hand2Mind

- Gr. 5 Mini-Lesson Book - Volume of a Composite Solid (pgs. 84-85) & Student Sheet (pg. 142)
- Gr. 5 Geometry, Measurement, & Data Intervention Book - Find Volume of Complex Figures (pgs. 34-35) & Student Sheet (pg. 64)
- Gr. 5 Geometry, Measurement, & Data Intervention Book - Solve Volume Problems (pgs. 36-37) & Student Sheet (pg. 65)

IXL

- 1. Volume of compound figures J83

Evidence/Performance Tasks

Assessments

- Formative: NJSLA Test Bank Questions, IXL Skill Plan Questions, Task Cards, Exit Tickets
- Summative: Pre-Assessment, Post-Assessment
- Benchmark: IXL Diagnostic, iReady Diagnostic
- Alternative Assessments: Anticipatory Sets

Materials

Core instructional materials: Core Book List including Big Ideas Math textbook

Supplemental materials: IXL & iReady

Suggested Strategies for Modification

Suggested Strategies for Modifications for Middle School Math Intervention