

Saint Theresa of Avila School- West Roxbury, MA Curriculum Maps Subject:  
Mathematics

Grade: Five

## Time Frame

### Essential Question

### Topic Content Resources Assessments Standards

#### September

5.NBT.1 5.NBT.3

#### October

- Using the expanded form, standard form, and word form to represent whole numbers.
  - Tenths and Hundredths place
  - Thousandths place
  - Using the expanded form, standard form, and word form to represent decimals.
  - Comparing and ordering numbers
  - Envision student textbook
  - Envision student workbook
  - Envision teacher textbook
  - Envision teacher workbook
  - Pearson Envision online program
  - Supplement math material
  - Math notebook
  - IXL online
  - manipulatives
  - Quick check quizzes **How are whole**
  - Topic 1 Test **numbers and**
  - Individual **decimals**
- Conferences **expressed?**

How are numbers and decimals compared and ordered?

### Introduction to Grade Five Mathematics

#### Place Value

How can sums and differences of decimals be estimated?

What are the standard procedures for adding and subtracting whole numbers and decimals?

#### How can

- Using commutative and
- 5. NBT.2** associative property to add
- 5. NBT.4** decimals.
- 5. NBT.5**
- Using compatible numbers to

**5. NBT.6** add decimals

**5. NBT.7**

- Round whole numbers and

**5.OA.1** decimals

**5.OA.2**

- Estimate sums and differences of decimals
- Model addition and subtraction of decimals
- Draw a picture and write an equation to problem solve

• Add and subtract decimals **Adding and Subtracting Decimals**

- Envision student textbook
- Envision student workbook
- Envision teacher textbook
- Envision teacher workbook
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- Math notebook
- IXL online
- Quick check quizzes
- Topic 2 Test
- Topic 3 Test

• Million Dollar Project **Multiplying Whole Numbers**

- Individual Conferences

**procedures of whole numbers be estimated?**

**What are the standard procedures for multiplying whole numbers?**

- Use multi steps to solve problems
- Use the associative, commutative, zero, and identity property of multiplication
- Use mental math to multiply digits ending in 0
- Estimate products
- Understand exponents: expanded form and standard form
- Use the distributive property of multiplication
- Multiply 1 digit numbers
- Multiply two digit by two digit numbers
- Draw a picture and write an equation to problem solve
- manipulatives

**November**

**How can quotients be estimated?**

**What are the standard procedures for dividing whole number?**

- Dividing multiples of 10 and 100
- Estimating quotients
- Use reasonableness to problem solve
- Use models and symbols to make connection to division
- Divide by 1 digit divisors

- Divide with zeros in the quotient
- Use drawings and writing to problem solve
- Use patterns to divide
- Estimate quotients with 2- digit divisors
- Use connections to make models and symbols
- Divide by multiples of 10
- Solve for 1 digit quotients
- Solve for 2 digit quotients
- Use estimation to divide with greater numbers **Dividing by 1 and 2 digit divisors**
- Envision student textbook
- Envision student workbook
- Envision teacher textbook
- Envision teacher workbook
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- IXL online
- manipulatives
- Quick check quizzes
- Topic 4 Test
- Topic 5 Test
- Individual Conferences

### 5. NBT.6

**How can products of decimals be estimated?**

**What are the standard procedures for multiplying decimals?**

### 5. NBT.1 5. NBT.2 5. NBT.7

## January

## Multiplying Decimals

- Multiply decimals by 10, 100,
- Envision student
- Quick check quizzes or 1,000  
textbook
- Topic 6 Test

## December

- Use estimation to find the
- Envision student
- Individual product of a decimal and a  
workbook  
Conferences whole number
- Envision teacher
- Use number sense for  
textbook decimal multiplication

- Envision teacher
- Use models for multiplying workbook decimals
- Pearson Envision
- Multiply a decimal by a online program whole number
- Supplement
- Multiply two decimals math material
- Use multiple steps to
- Math notebook problem solve
- IXL online
- manipulatives

**How can quotients of decimals be estimated?**

**What are the standard procedures for dividing decimals?**

**5. NBT.1 5. NBT.2 5. NBT.7**

## **February**

**Dividing Decimals** • Divide decimals by 10, 100,

or 1,000

- Envision student
- Quick check quizzes textbook
- Topic 7 Test
- Estimate decimal quotients
- Envision student
- Individual
- Use number sense for workbook
- Conferences decimal division
- Envision teacher
- Divide a decimal by a whole textbook number
- Envision teacher
- Divide a whole number by a workbook decimal
- Pearson Envision
- Divide a decimal by a decimal online program
- Use multiple steps to
- Supplement problem solve math material
- Math notebook
- IXL online

- manipulatives

**How are the values**

## **Numerical**

**of an algebraic expression found?**

## **Expressions, Patterns, and relationships**

**5.OA.1 5.OA.2 5.OA.3**

**How are numerical expressions simplified?**

- Use variables to write
- Envision student
- Quick check quizzes expressions

textbook

- Topic 8 Test
- Use the order of operations
- Envision student
- Individual to solve an equation

workbook

Conferences

- Simplify expressions using
- Envision teacher parenthesis

textbook

- Evaluate expressions
- Envision teacher

workbook

- Pearson Envision online program
- Supplement math material
- Math notebook
- IXL online manipulatives

## **March**

- Find the rule to add or subtract expressions
- Find the rule to multiply to divide expressions
- Use patterns
- Use variables and expressions
- Act it out and use reasoning to problem solve

**5.NF.1 5.NF.2**

## **April**

### **Adding and Subtracting Fractions**

- Finding equivalent fractions
- Writing fractions in simplest form
- Use writing to explain to
- Quick check quizzes
- Topic 9 Test

- Individual Conferences problem solve

- ESTIMATE SUMS AND DIFFERENCES OF FRACTIONS

- Finding common multiples
- Finding least common multiples
- Finding common denominators
- Adding fractions with unlike denominators
- Subtracting fractions with unlike denominators
- Use pictures and writing to problem solve
- Envision student **How can parts of a textbook whole be expressed?**
- Envision student **expressed?** workbook
- Envision teacher **What strategies textbook can be used to add and subtract fractions with unlike denominators?** workbook
- Pearson Envision online program
- Supplement

**How are sums and differences of fractions estimated?**

math material

- Math notebook
- IXL online manipulatives

**What strategies**

**5.NF.1 can be used to add**

**5.NF.2 or subtract mixed numbers?**

**How are sums and differences of mixed numbers estimated?**

- Converting improper
- Envision student
- Quick check quizzes **Adding and Subtracting Mixed**

fractions and mixed numbers

textbook

- Topic 10 Test
  - Estimating sums and
  - Envision student
  - Individual differences of mixed
- workbook

Conferences **Numbers**

numbers

- Envision teacher
  - Modeling addition and
- textbook subtraction of mixed
- Envision teacher numbers with fraction

workbook rectangles

- Pearson Envision
- Adding mixed numbers

online program

- Subtracting mixed numbers
- Supplement

math material

- Math notebook
- IXL online manipulatives

## May

- Solving word problems by drawing a picture and writing an equation

**What are the standard procedures for multiplying fractions and mixed numbers?**

**What are the standard procedures for dividing fractions and mixed numbers?**

**How are quotients and products of mixed numbers and fractions estimated?**

**5.NF.3 5.NF.5 5.NF.4.a 5.NF.4.b 5.NF.5 5.NF.5.a 5.NF.5.b 5.NF.6 5.NF.7 5.NF.7.a 5.NF.7.b**

**5.NF.7.c**

## June

- Representing fractions as
- Envision student
- Quick check quizzes division and fractions

textbook

- Topic 11 Test
- Multiplying fractions and whole numbers
- multiplying two fractions
- Finding the area of a rectangle
- Multiplying mixed numbers
- Representing multiplication as scaling
- Using multistep to solve problems
- Envision student
- Individual workbook

Conferences

- Envision teacher textbook
- Envision teacher workbook
- Pearson Envision online program
- Dividing whole numbers by unit
- Supplement fractions

math material

- Dividing unit fractions by whole

numbers Use pictures and writing to solve **Multiplying and Dividing Fractions and**

## **Mixed Numbers**

- Math notebook
- IXL online

problems

manipulatives

### How can 3-

- Identify three-dimensional **dimensional shapes be represented and analyzed?**

shapes according to vertices, faces, and edges

- Identify different views of a solid Solving word problems by breaking the problem apart

### **What does the volume of a rectangular prism mean and how can**

- Use models to find volume

- Finding the volume of rectangular solid

- Finding the volume of rectangular prism **it be found?**

- Finding the volume of irregular solids **What are**

- Using objects and reasoning to **measurement**

problem solve **units and how are they converted in customary and metric systems?**

## **Volume of Solids**

- Envision student

**5.MD.1** textbook

**5.MD.3**

## **Units of Measure**

- Envision student

**5.MM.3.a** workbook

**5.MD.3.b**

- Envision teacher

**5.MD.4** textbook

**5.MD.5**

- Envision teacher

**5.MM.5.a** workbook

**5.MD.5.b**

- Pearson Envision

**5.MD.5.c** online program

- Supplement math material

- Math notebook

- Converting customary units of length

- IXL online manipulatives

- Converting customary units of capacity

- Quick check quizzes

- Topic 12 Test

- Individual Conferences