



# Country Club Hills Mathematics Curriculum



## Mathematics – Kindergarten

### Numbers 0-10 (Week 1 - Week 6)

*Essential Questions:* Why do we count? How is number order helpful to us? What can numerals...

*Content:* [K.CC.A.2](#) Sequencing numbers to 100 [K.CC.A.3](#) Numerals 0...

*Skills & Learning Targets:* [K.CC.A.2](#) Count from a given number in a sequence. [K.CC.A.3...](#)

*Resources:* enVisionmath2.0Common Core Grade K Math Folder Games (Really Good Stuff...

*Enduring Understandings:* Many kinds of experiences help develop number sense. Counting to solve...

*Standards & Benchmarks:* IL: Mathematics IL: Kindergarten Counting & Cardinality [K.CC.A. Know...](#)

*Academic Vocabulary:* [Critical](#) : counting, numbers, order: before, between, after, next,...

[Math K \(C\)](#) ; [Collaboration](#); District 160; **Kindergarten**; Mathematics

### Oral Counting to 100 (Week 1 - Week 6)

*Essential Questions:* How does knowing numbers 0-10 help you in counting other numbers? How are...

*Content:* [K.CC.A.1](#) Count to 100

*Skills & Learning Targets:* [K.CC.A.1](#) Count to 100 by ones and by tens.

*Resources:* enVisionmath2.0Common Core Grade K Math Folder Games (Really Good Stuff...

*Enduring Understandings:* Numbers have a pattern. Patterns exist in the world and can be represented...

*Standards & Benchmarks:* IL: Mathematics IL: Kindergarten Counting & Cardinality [K.CC.A. Know...](#)

*Academic Vocabulary:* [Critical](#) : hundreds chart (rows, columns), numbers, grouping,...

[Math K \(C\)](#) ; [Collaboration](#); District 160; **Kindergarten**; Mathematics

### Adding: Putting Together (Week 7 - Week 10)

*Essential Questions:* What is the connection of an equation to a number combination? How are...

*Content:* [K.OA.A.1](#) Addition/Subtraction

*Skills & Learning Targets:* [K.OA.A.1](#) Add and subtract by using objects, fingers, mental math,...

*Resources:* enVisionmath2.0Common Core Grade K Math Folder Games (Really Good Stuff...

*Enduring Understandings:* An equation is a math problem. Addition and subtraction have an opposite...

*Standards & Benchmarks:* IL: Mathematics IL: Kindergarten Operations & Algebraic Thinking [K.OA.A....](#)

*Academic Vocabulary:* [Critical](#) : add-put together, adding to, compose, plus sign, sum,...

[Math K \(C\)](#) ; [Collaboration](#); District 160; **Kindergarten**; Mathematics

### Shapes (Week 11 - Week 16)

*Essential Questions:* Why is it important to identify and describe shape features in real-world...

*Content:* [K.G.A.1](#) Names of shapes Shapes within objects in the environment...

*Skills & Learning Targets:* [K.G.A.1](#) Identify objects in the environment and in positions...

*Resources:* enVisionmath2.0Common Core Grade K Math Folder Games (Really Good Stuff...

*Enduring Understandings:* Understanding geometric shapes have a role in the world. Making...

*Standards & Benchmarks:* IL: Mathematics IL: Kindergarten Geometry [K.G.A. Identify and describe...](#)

*Academic Vocabulary:* [Critical](#) : flat shapes: square, circle, rectangle, triangle, solid...

[Math K \(C\)](#) ; [Collaboration](#); District 160; **Kindergarten**; Mathematics

## Subtracting: Taking Apart (Week 17 - Week 21)

*Essential Questions:* Why should numbers be decomposed to form different combinations of a...

*Content:* [K.OA.A.1](#) Addition/Subtraction

*Skills & Learning Targets:* [K.OA.A1](#) Add and subtract numbers by using objects, fingers, mental...

*Resources:* [enVisionmath2.0Common Core Grade K Math Folder Games \(Really Good Stuff...](#)

*Enduring Understandings:* Different combinations of numbers within 10 represent addition and...

*Standards & Benchmarks:* [IL: Mathematics IL: Kindergarten Operations & Algebraic Thinking K.OA.A....](#)

*Academic Vocabulary:* [Critical:](#) adding-putting together, join, altogether, in all,...

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## Numbers 11 - 20 (Week 22 - Week 28)

*Essential Questions:* How are teen numbers composed and decomposed?

*Content:* [K.CC.A.2](#) Number Sequence [K.CC.A.3](#) Numbers 11-20...

*Skills & Learning Targets:* [K.CC.A.2](#) Count from a given number. [K.CC.A.3](#) Write numbers...

*Resources:* [enVisionmath2.0Common Core Grade K Math Folder Games \(Really Good Stuff...](#)

*Enduring Understandings:* Teen numbers are composed of a group of ten and some more. Knowledge of...

*Standards & Benchmarks:* [IL: Mathematics IL: Kindergarten Counting & Cardinality K.CC.A. Know...](#)

*Academic Vocabulary:* [Critical :](#) numeral numbers 11 (eleven), 12 (twelve), 13 (thirteen)...

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## Measurement (Week 29 - Week 32)

*Essential Questions:* How is mathematical language used to describe shapes? Why do I measure?...

*Content:* [K.MD.A.](#) Attributes of objects such as length or weight...

*Skills & Learning Targets:* [K.MD.A](#) Describe length or weight of an object. [K.MD.B3...](#)

*Resources:* [enVisionmath2.0Common Core Grade K Math Folder Games \(Really Good Stuff...](#)

*Enduring Understandings:* Comparing quantity of numbers can be described as less than, greater than,...

*Standards & Benchmarks:* [IL: Mathematics IL: Kindergarten Measurement & Data K.MD.A. Describe and...](#)

*Academic Vocabulary:* [Critical:](#) classify, category, sort, compare, measurement, length,...

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## Numbers and Operations in Base Ten (Week 22 - Week 28)

*Essential Questions:* How do we determine measurable attributes of objects? Why do we use...

*Content:* [K.CC.A.2.](#) Count forward beginning from a given number...

*Skills & Learning Targets:* [K.CC.A.2.](#) Count forward beginning from a given number....

*Resources:* [enVisionmath2.0Common Core Grade K Math Folder Games \(Really Good Stuff...](#)

*Enduring Understandings:* Counting is used to find how many or how much a quantity represents. The...

*Standards & Benchmarks:* [IL: Mathematics IL: Kindergarten Counting & Cardinality K.CC.A. Know...](#)

*Academic Vocabulary:* [Critical:](#) numeral numbers 0-20, 11 (eleven), 12 (twelve), 13...

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## Geometry (Week 33 - Week 37)

*Essential Questions:* What characteristics make up a complex shape (two dimensional and three...

*Content:* [K.G.B.4](#) Two and three dimensional shapes

*Skills & Learning Targets:* [K.G.B.4](#) Analyze and compare two and three dimensional...

*Resources:* [enVisionmath2.0Common Core Grade K Math Folder Games \(Really Good Stuff...](#)

*Enduring Understandings:* Basic shapes are used to create more complex shapes. Two dimensional...

*Standards & Benchmarks:*IL: Mathematics IL: Kindergarten Geometry K.G.B. Analyze, compare, create,...  
*Academic Vocabulary:* Critical: two and three dimensional shapes, flat, solid, circle,...

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# Mathematics – First Grade


## [Adding & Subtracting within 10](#) (Week 1 - Week 8)

*Essential Questions:* Why do I need mathematical operations? How do I know which mathematical...

*Content:* [1.OA.A.1](#). Addition and subtraction word problems [1.OA.B.3](#)...

*Skills & Learning Targets:* [1.OA.A.1](#) Represent and solve word problems using taking from,...

*Resources:* [enVisionmath2.0](#) <https://www.pearsonrealize.com/#/https://www.thelearningodys...>

 [Primary Problem-solving Recording Sheet \(1\).docx](#): Primary Problem-solving Recording Sheet (1).docx Problem-Solving R...

*Enduring Understandings:* An equation is a math problem. Operations create relationships between...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 1 Operations & Algebraic Thinking [1.OA.A.1](#)...

*Academic Vocabulary:* Critical : add, sum, plus, equals, equation, parts, whole,...

[Math 1 \(C\)](#) ; [Collaboration](#); District 160; Grade 1; Mathematics

## [Patterning](#) (Week 1 - Week 3)

*Essential Questions:* How do you know what is a pattern and what is not?



*Content:* Patterning Relationships and symbols

*Skills & Learning Targets:* Recognize, extend, generalize, and create a wide variety of patterns and...

*Standards & Benchmarks:*

[SAMPLE-Math 1](#); [Villa-Zang, Amber](#); Meadowview School; Grade 1; Mathematics

## [Math is Fun](#) (Week 1 - Week 11)

*Standards & Benchmarks:*

[SAMPLE-Math 1](#); [Villa-Zang, Amber](#); Meadowview School; Grade 1; Mathematics

## [Number Sense, Concepts & Operations](#) (Week 3 - Week 6)

*Content:* Numbers from 0 - 20 Strategies for addition Addition Concepts: Part,...

*Skills & Learning Targets:* Write numerals from 0 - 10 using the proper formation Write numbers from 1...

*Standards & Benchmarks:*

[SAMPLE-Math 1](#); [Villa-Zang, Amber](#); Meadowview School; Grade 1; Mathematics

## [Addition & Subtraction](#) (Week 7 - Week 9)


*Content:* Subtraction, comparison strategy Number line strategy Doubles, doubles...



 [Addition PPPST Website](#): Addition PPPST Website Home Math Games Lessons Clipart Presentations...

*Skills & Learning Targets:* Solve addition equation using number line Demonstrate utilization of...

*Resources:* Mental Math

 [Ed Helper: Story Problems](#): Ed Helper: Story Problems edHelpercom Math Worksheets Word Problems Word...

 [Math Resources for Teachers](#): Math Resources for Teachers Reading Mathematics Science Social Studies...

*Standards & Benchmarks:*

[SAMPLE-Math 1](#); [Villa-Zang, Amber](#); Meadowview School; Grade 1; Mathematics

## Adding & Subtracting within 20 (Week 9 - Week 17)

*Essential Questions:* Why do I need mathematical operations? How do I know which mathematical...

*Content:* 1.OA.A.1. Addition and subtraction word problems 1.OA.B.3...

*Skills & Learning Targets:* 1.OA.A.1 Represent and solve word problems using taking from,...

*Resources:* enVisionmath2.0 <https://www.pearsonrealize.com/#/https://www.thelearningodys...>

*Enduring Understandings:* An equation is a math problem. Operations create relationships between...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 1 Operations & Algebraic Thinking 1.OA.A....

*Academic Vocabulary:* Critical : number line, add, sum, plus, equals, equation, parts,...

**Math 1 (C)**; **Collaboration**; District 160; Grade 1; Mathematics

## fractions (Week 10 - Week 11)

*Essential Questions:* lkdsjafkjdjaoifmdaijfoidajfaq

*Standards & Benchmarks:*

**SAMPLE-Math 1**; **Villa-Zang, Amber**; Meadowview School; Grade 1; Mathematics

## Estimation (Week 12 - Week 13)

*Essential Questions:* If you estimate, how can you be right?

*Content:* Estimation of objects in a group Benchmarking

*Skills & Learning Targets:* Develop concept of benchmarks Estimate how many are in a group using...

*Standards & Benchmarks:*

**SAMPLE-Math 1**; **Villa-Zang, Amber**; Meadowview School; Grade 1; Mathematics

## Place Value (Week 13 - Week 14)

*Content:* Grouping tens Place value Review: Pronunciation of decades ending in...

*Skills & Learning Targets:* Identify base-ten blocks that represent the two-digit number Model, and...

*Standards & Benchmarks:*

**SAMPLE-Math 1**; **Villa-Zang, Amber**; Meadowview School; Grade 1; Mathematics

## Number Patterns (Week 14 - Week 15)

*Essential Questions:* How are odd numbers "Odd"?

*Content:* Skip-counting Odd and even numbers Problem solving: Looking for a pattern...

*Skills & Learning Targets:* Identify even and odd numbers Use manipulatives, hundreds chart, and...

*Resources:* Manipulatives Hundreds chart Number line

*Standards & Benchmarks:*

**SAMPLE-Math 1**; **Villa-Zang, Amber**; Meadowview School; Grade 1; Mathematics

## Time & Calendar (Week 15 - Week 16)

*Essential Questions:* How does time affect our lives? Why is it important to keep a calendar?

*Content:* Parts of clock Tools to tell time Purpose of Time Elapsed Time...

*Skills & Learning Targets:* Time: Name and label the face, hands, and numbers Tell time to the hour ...

*Resources:* Clocks



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*Standards & Benchmarks:*

**SAMPLE-Math 1**; **Villa-Zang, Amber**; Meadowview School; Grade 1; Mathematics

## Money (Week 17 - Week 18)

*Essential Questions:* If money grew on trees, what would you buy?



*Content:* Characteristics of coins: Names and terminology The value of coins, amounts...

*Skills & Learning Targets:* Recite from memory the name and characteristics for a penny, nickel, dime,...

*Standards & Benchmarks:*

SAMPLE-Math 1; Villa-Zang, Amber; Meadowview School; Grade 1; Mathematics

## Data & Graphs (Week 18 - Week 20)

*Essential Questions:* How can information be gathered, recorded, and organized? Why is data...

*Content:* 1.MD.C.4 Graphs and data with 3 categories

*Skills & Learning Targets:* 1.MD.C.4 Organize, represent, and interpret bar and pictographs...

*Resources:* enVisionmath2.0 <https://www.pearsonrealize.com/#/https://www.thelearningodys...>

*Enduring Understandings:* Data is factual information that is organized to help me analyze or make...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 1 Measurement & Data 1.MD.C. Represent and...

*Academic Vocabulary:* Critical: graph, chart, tally mark, data, survey...

Math 1 (C); Collaboration; District 160; Grade 1; Mathematics

## Numbers to 100 (Week 19 - Week 20)

*Content:* Greater than and less than numbers to 100 Symbols: greater than and less...

*Skills & Learning Targets:* Model 2 two-digit numbers, compare, and identify which number is greater...

*Standards & Benchmarks:*

SAMPLE-Math 1; Villa-Zang, Amber; Meadowview School; Grade 1; Mathematics

## Place Value (Week 21 - Week 25)

*Essential Questions:* What is significant about the teen numbers and double digit numbers (as...

*Content:* 1.NBT.B.2 Two-digit numbers Tens and ones Groups of tens...

*Skills & Learning Targets:* 1.NBT.B.2 Identify and represent tens and ones. 1.NBT.B.3....

*Resources:* enVisionmath2.0 <https://www.pearsonrealize.com/#/https://www.thelearningodys...>



K-2 Math Intervention Kit (1).pdf: K-2 Math Intervention Kit (1).pdf [K-2] MatH ~ M...

*Enduring Understandings:* The value of a number is determined by its position. Numbers are made up...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 1 Number & Operations in Base Ten 1.NBT.A....

*Academic Vocabulary:* Critical: hundreds chart, rows, columns, ones digit, tens digit,...

Math 1 (C); Collaboration; District 160; Grade 1; Mathematics

## Double-Digit Numbers (Week 21 - Week 22)

*Content:* Double-digit numbers: Adding & Subtracting Story problems Review Basic...

*Skills & Learning Targets:* Utilize appropriate strategies when adding and subtracting one-digit and...

*Standards & Benchmarks:*

SAMPLE-Math 1; Villa-Zang, Amber; Meadowview School; Grade 1; Mathematics

## Organizing Data (Week 22 - Week 24)

*Content:* Tally tables Types of Graphs: Picture, pictographs, horizontal and...

*Skills & Learning Targets:* Interpret and make a tally table Make a tally table and transfer the data...

*Standards & Benchmarks:*

[SAMPLE-Math 1](#); [Villa-Zang, Amber](#); Meadowview School; Grade 1; Mathematics

### Data & Predictions (Week 24 - Week 25)

*Content:* Outcomes: Certain or impossible Review Review vocabulary:...

*Skills & Learning Targets:* Identify events as certain or impossible Conduct and interpret outcomes of...

*Standards & Benchmarks:*

[SAMPLE-Math 1](#); [Villa-Zang, Amber](#); Meadowview School; Grade 1; Mathematics

### Adding & Subtracting 10 to a number (Week 26 - Week 28)

*Essential Questions:* How can patterns be used to make predictions? How can patterns be used to...

*Content:* 1.NBT.C.4 Adding and subtracting within 100 Strategies used when...

*Skills & Learning Targets:* 1.NBT.C.4 Add within 100 using concrete models or drawings and...

*Resources:* enVisionmath2.0 <https://www.pearsonrealize.com/#/https://www.thelearningodys...>

*Enduring Understandings:* Identification of 10 more/10 less is the same as adding or subtracting...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 1 Number & Operations in Base Ten 1.NBT.C. Use...

*Academic Vocabulary:* Critical: number line, add, sum, plus, equals, equation, parts,...

[Math 1 \(C\)](#); [Collaboration](#); District 160; Grade 1; Mathematics

### Plane Figures (Week 26 - Week 27)

*Essential Questions:* What plane figures do you see around our classroom?

*Content:* Plane figures: triangle, rectangle, circle, square Congruent figures



*Skills & Learning Targets:* Compare and contrast different plane figures Identify, classify, and...

*Standards & Benchmarks:*

[SAMPLE-Math 1](#); [Villa-Zang, Amber](#); Meadowview School; Grade 1; Mathematics

### Solid Figures & Symmetry (Week 28 - Week 29)

*Essential Questions:* What solid figures can you find around the classroom / environment?

*Content:* Solid figures: rectangular prism, sphere, cone, cylinder, cube, and...

*Skills & Learning Targets:* Solid Figures: Identify and list the solid figures around the...

*Standards & Benchmarks:*

[SAMPLE-Math 1](#); [Villa-Zang, Amber](#); Meadowview School; Grade 1; Mathematics

### Measurement (Week 29 - Week 31)

*Essential Questions:* Why do I measure? When and how do we measure length? How do I choose the...

*Content:* 1.MD.A.1. Ordering objects by length 1.MD.A.2. Measuring...

*Skills & Learning Targets:* 1.MD.A.1. Order and compare 3 objects by length using longest to...

*Resources:* enVisionmath2.0 <https://www.pearsonrealize.com/#/https://www.thelearningodys...>

*Enduring Understandings:* Measurement describes the attributes of objects and events. Objects and...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 1 Measurement & Data 1.MD.A. Measure lengths...

*Academic Vocabulary:* Critical: longest, shortest, longer, shorter, measure, length,...

[Math 1 \(C\)](#); [Collaboration](#); District 160; Grade 1; Mathematics

### Measurement - Length (Week 30 - Week 31)

*Essential Questions:* How would you go about measuring the length of the classroom marker board?

*Content:*Measurement - length Review Vocabulary: length, ruler, tool, inches,...  
*Skills & Learning Targets:*Estimate and measure object, to the nearest inch and centimeter, using...  
*Resources:*Measuring kits containing standard and non-standard measuring tools: Ruler...  
*Standards & Benchmarks:*

[SAMPLE-Math 1](#); [Villa-Zang, Amber](#); Meadowview School; Grade 1; Mathematics

### Telling Time (Week 32 - Week 33)

*Essential Questions:*How do we measure time? How are dividing a circle and telling time...  
*Content:* 1.MD.3. Difference between an analog clock and a digital...  
*Skills & Learning Targets:* 1.MD.B.3. Tell time on an analog and digital clock.Write the time...  
*Resources:*enVisionmath2.0https://www.pearsonrealize.com/#/https://www.thelearningodys...  
*Enduring Understandings:*Time is measured in hours and minutes and can be shown on different kinds...  
*Standards & Benchmarks:*IL: Mathematics IL: Grade 1 Measurement & Data 1.MD.B. Tell and write...  
*Academic Vocabulary:*Critical: analog, digital, hour hand, hour, minute hand, minute,...

[Math 1 \(C\)](#); [Collaboration](#); District 160; Grade 1; Mathematics

### Measurement - Capacity (Week 32 - Week 33)

*Content:*Measurement - Capacity Review Vocabulary: capacity, gallons, quarts,...  
*Skills & Learning Targets:*Explore measuring liquid and solid materials using different containers...  
*Resources:*Measuring kits with containers & materials: Gallon Quart Pint Cup...  
*Standards & Benchmarks:*

[SAMPLE-Math 1](#); [Villa-Zang, Amber](#); Meadowview School; Grade 1; Mathematics

### Geometry (Week 34 - Week 37)

*Essential Questions:*What attributes do shapes have and what makes them unique? How are shapes...  
*Content:* 1.G.A.3 Equal shares of shapesWhole, halves, fourth, quarters....  
*Skills & Learning Targets:* 1.G.A.3 Describe the properties of a whole, halves, fourth,...  
*Resources:*enVisionmath2.0https://www.pearsonrealize.com/#/https://www.thelearningodys...  
*Enduring Understandings:*What characteristics make-up a complex shape (2-D and 3-D)? Objects can be...  
*Standards & Benchmarks:*IL: Mathematics IL: Grade 1 Geometry 1.G.A. Reason with shapes and their...  
*Academic Vocabulary:*Critical : 2-D shapes, vertex,vertices, 3-D shapes, flat shape,...

[Math 1 \(C\)](#); [Collaboration](#); District 160; Grade 1; Mathematics

### Measurement - Weight (Week 34 - Week 35)

*Content:*Measurement - weight Review Vocabulary: weight, scale, pounds, ounces,  
*Skills & Learning Targets:*Estimate and measure weight of object Select appropriate tool to weigh an...  
*Resources:*Weight kits with items & scale: Ball Apple Book Scale  
*Standards & Benchmarks:*

[SAMPLE-Math 1](#); [Villa-Zang, Amber](#); Meadowview School; Grade 1; Mathematics

### Measurement - Temperature (Week 36 - Week 37)

*Content:*Measurement - temperature Review Vocabulary: thermometer, Fahrenheit,...  
*Skills & Learning Targets:*Read and record temperature to the nearest tenth and fifth degree in...  
*Resources:*Thermometers  
*Standards & Benchmarks:*

[SAMPLE-Math 1](#); [Villa-Zang, Amber](#); Meadowview School; Grade 1; Mathematics



# Mathematics – Second Grade

## Adding within 20 (Week 1 - Week 4)

*Essential Questions:* What strategies can help us become fluent with math facts? How can I use...

*Content:* 2.OA.A.1 AdditionSubtractionUnknownsDrawingsEquationsSymbolTwo-step...

*Skills & Learning Targets:* 2.OA.A.1 Use addition and subtraction to solve word problems...

*Resources:* enVisionmath2.0Google Drive...

*Enduring Understandings:* Strategies can help us become fluent with math facts. Groups of ten can...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 2 Operations & Algebraic Thinking 2.OA.A....

*Academic Vocabulary:* Critical: sum, addend, digit, equation, doubles, near doubles...

**Math 2 (C)** ; Collaboration; District 160; Grade 2; Mathematics

## Subtracting within 20 (Week 5 - Week 7)

*Essential Questions:* What strategies can help us become fluent with math facts? How are...

*Content:* 2.OA.A.1 Two-step word problemsUnknowns, drawings, equations,...


*Skills & Learning Targets:* 2.OA.A.1 Solve by taking from, putting together, and comparing...

*Resources:* enVisionmath2.0Google Drive...

*Enduring Understandings:* Strategies can help us become fluent with math facts. Addition and...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 2 Operations & Algebraic Thinking 2.OA.A....

*Academic Vocabulary:* Critical: difference, digit Supplemental: subtract,...

**Math 2 (C)** ; Collaboration; District 160; Grade 2; Mathematics

## Even and Odd Numbers and Arrays (Week 7 - Week 8)

*Essential Questions:* How is repeated addition related to skip counting? How are arrays and...

*Content:* 2.OA.C.3 equal groupseven or odd numbers 2.OA.C.4...

*Skills & Learning Targets:* 2.OA.C.3 Determine if a group of objects are even or odd by...

*Resources:* enVisionmath2.0Google Drive...

*Enduring Understandings:* Repeated addition is related to skip counting. Arrays and repeated...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 2 Operations & Algebraic Thinking 2.OA.C. Work...

*Academic Vocabulary:* Critical: even, odd, array, column, row, bar diagram

**Math 2 (C)** ; Collaboration; District 160; Grade 2; Mathematics

## Adding within 100 (Week 8 - Week 12)

*Essential Questions:* What strategies can we use to add larger numbers? How can place value help...

*Content:* 2.OA.A Addition and subtractionOne and two-step problems

*Skills & Learning Targets:* 2.OA.A Solve, put together, take apart, compare and draw equations.

*Resources:* enVisionmath2.0Google Drive...

*Enduring Understandings:* Strategies can help us add larger numbers. Place value helps us add larger...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 2 Operations & Algebraic Thinking 2.OA.A....

*Academic Vocabulary:* Critical : regroup, equation, open number line, mental math, break...

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## Subtracting within 100 (Week 13 - Week 18)

*Essential Questions:* What strategies can we use to add larger numbers? How can place value help...

*Content:* 2.OA.A.1 One and two-step problems

*Skills & Learning Targets:* 2.OA.A.1 Subtract, take away and compare story problems by using...

*Resources:* enVisionmath2.0Google Drive...

*Enduring Understandings:* Place value help us subtract larger numbers. We need to know when to...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 2 Operations & Algebraic Thinking 2.OA.A....

*Academic Vocabulary:* Critical : difference, break apart Supplemental : ones, tens

**Math 2 (C)**; [Collaboration](#); District 160; Grade 2; Mathematics

**Place Value** (Week 19 - Week 21)

*Essential Questions:* How can place value help me add and subtract larger numbers? How can...

*Content:* [2.NBT.A.1](#). Three-digit numbers (hundreds, tens, ones)...

*Skills & Learning Targets:* [2.NBT.A.1](#). Write numbers in expanded form and in standard...

*Resources:* [enVisionmath2.0Google Drive...](#)

*Enduring Understandings:* Number sense develops through experiences. Numbers are made up of digits...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 2 Number & Operations in Base Ten [2.NBT.A....](#)

*Academic Vocabulary:* Critical : hundreds, thousands, digits, place-value chart,...

**Math 2 (C)**; [Collaboration](#); District 160; Grade 2; Mathematics

**Measurement** (Week 22 - Week 24)

*Essential Questions:* Why do I measure? Why do I need standardized units of measurement? How do...

*Content:* [2.MD.A.1](#) Length of an object Appropriate tools (ruler, yardstick,...

*Skills & Learning Targets:* [2.MD.A.1](#) Measure objects using appropriate tool. [2.MD.A.3...](#)

*Resources:* [enVisionmath2.0Google Drive...](#)

*Enduring Understandings:* Measurement describes the attributes of objects and events. Standard units...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 2 Measurement & Data [2.MD.A](#). Measure and...

*Academic Vocabulary:* Critical : estimate, inch, foot, yard, length, height, nearest...

**Math 2 (C)**; [Collaboration](#); District 160; Grade 2; Mathematics

**Telling Time** (Week 25 - Week 27)

*Essential Questions:* How do we measure time? Why do we measure time?

*Content:* [2.MD.C](#) Analog and digital clocks Nearest 5 minutes a.m.p.m.

*Skills & Learning Targets:* [2.MD.C](#) Tell and write time to the nearest five minutes using a.m....

*Resources:* [enVisionmath2.0Google Drive...](#)

*Enduring Understandings:* Time is measured in many different size units.

*Standards & Benchmarks:* IL: Mathematics IL: Grade 2 Measurement & Data [2.MD.C](#). Work with time and...

*Academic Vocabulary:* Critical: analog, digital, a.m., p.m., hour, minute

**Math 2 (C)**; [Collaboration](#); District 160; Grade 2; Mathematics

**Money** (Week 28 - Week 30)

*Essential Questions:* How do coin values effect how money is counted? Do I need to subtract or...

*Content:* [2.MD.C](#) Dollar bills Quarters, dimes, nickels, and pennies Dollar and...

*Skills & Learning Targets:* [2.MD.C](#) Solve word problems involving money.

*Resources:* [enVisionmath2.0Google Drive...](#)

*Enduring Understandings:* There are many ways to solve addition and subtraction money problems. Some...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 2 Measurement & Data [2.MD.C](#). Work with time and...

*Academic Vocabulary:* Critical : dime, nickel, penny, quarter, half dollar, cents

**Math 2 (C)**; [Collaboration](#); District 160; Grade 2; Mathematics

**Geometry** (Week 31 - Week 33)

*Essential Questions:* How do geometric models describe spatial relationships? How are geometric...

*Content:* [2.G.A.1](#) Shapes Specified attributes Given number Equal...

*Skills & Learning Targets:* [2.G.A.1](#) Recognize, draw and identify shapes with specific...

*Resources:* [enVisionmath2.0Google Drive...](#)

*Enduring Understandings:* Geometry and spatial sense offer ways to interpret and reflect on our...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 2 Geometry [2.G.A](#). Reason with shapes and their...

Academic Vocabulary: Critical : vertices (vertex), quadrilateral, pentagon, hexagon,...

Math 2 (C) ; Collaboration; District 160; Grade 2; Mathematics

### Data and Graphs (Week 34 - Week 37)

Essential Questions: How can we use pictures to make numerical information easy to interpret?...

Content: 2.MD.D.9 Lengths of objects Line plot Horizontal scale...

Skills & Learning Targets: 2.MD.D.9 Measure lengths of several objects. 2.MD.D.10 Draw...

Resources: enVisionmath2.0 Google Drive...

Enduring Understandings: We can use graphs to organize information and make comparisons. We can use...

Standards & Benchmarks: IL: Mathematics IL: Grade 2 Measurement & Data 2.MD.D. Represent and...

Academic Vocabulary: Critical : data, line plot, bar graph Supplemental :...

Math 2 (C) ; Collaboration; District 160; Grade 2; Mathematics

# Mathematics – Third Grade

## Understanding Multiplication and Division (Week 1 - Week 8)

*Essential Questions:* Why do I need mathematical operations? How do mathematical operations...

*Content:* [3.OA.A](#) Products of whole numbers Whole-number quotients of whole...

*Skills & Learning Targets:* [3.OA.A](#) Interpret products of whole numbers. Interpret whole-number...

*Resources:* enVisionmath2.0 Google Drive Resources [Common Core Coach](#) by Triumph...

*Enduring Understandings:* Operations create relationships between numbers. The relationships among...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 3 Operations & Algebraic Thinking 3.OA.A....

*Academic Vocabulary:* Critical- multiplication, division, product, equation, unknown,...

**Math 3 (C)** ; [Collaboration](#); District 160; Grade 3; Mathematics


## Numeration/Place Value (Week 1 - Week 3)

*Essential Questions:* Why do we use place value when representing numbers?

*Content:* Place value through hundred thousands Introduce place value through...

*Skills & Learning Targets:* Read and write numbers to six digits Read and write standard and expanded...

*Resources:*

 [Parfait Q1 Unit 2 assessment](#): Parfait Q1 Unit 2 assessment ELA Assessments.doc [HYPERLINK I...](#)

*Standards & Benchmarks:*

**SAMPLE-Math 3**; [Villa-Zang, Amber](#); Meadowview School; Grade 3; Mathematics

## Place Value (Week 1 - Week 2)

*Essential Questions:* How do I determine the best numerical representation (pictorial, symbolic,...

*Content:* [3.NBT](#) whole numbers to the nearest 10 or 100 add and subtract...

*Skills & Learning Targets:* [3.NBT](#) use place value understanding to round whole numbers to the...

*Resources:* enVisionmath 2.0 Common Core Coach by Triumph Learning Common Core...

*Enduring Understandings:* Number sense develops through experience. Numbers are made up of digits...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 3 Number & Operations in Base Ten 3.NBT.A. Use...

*Academic Vocabulary:* Critical l- hundreds, thousands, whole numbers, ordinal numbers,...

**Math 3 (C)** ; [Collaboration](#); District 160; Grade 3; Mathematics

## Operations- Addition & Subtraction within 1000 (Week 3 - Week 8)

*Essential Questions:* Why do I need mathematical operations? How do mathematical operations...

*Content:* [3.OA.D](#) two-step word problems using the four operations problems...

*Skills & Learning Targets:* [3.OA.D](#) solve two-step word problems using the four...

*Resources:* enVisionmath 2.0 Common Core Coach by Triumph Learning Common Core...

*Enduring Understandings:* Operations create relationships between numbers. The relationships among...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 3 Operations & Algebraic Thinking 3.OA.D. Solve...

*Academic Vocabulary:* Critical- addition, subtraction, multiplication, division (four...

**Math 3 (C)** ; [Collaboration](#); District 160; Grade 3; Mathematics

## Addition/Subtraction (Week 4 - Week 6)

*Essential Questions:* What properties are used in addition to solve number sentences? Why is...

*Content:* Addition Properties and Patterns Subtraction Rules Mental Math Strategies...

*Skills & Learning Targets:* Add and subtract four and five digit numbers with and without regrouping...

*Standards & Benchmarks:*

**SAMPLE-Math 3**; [Villa-Zang, Amber](#); Meadowview School; Grade 3; Mathematics

### Multiplication/Division (Week 6 - Week 8)

*Essential Questions:*1. What are the multiplication properties?2. How can you use a...

*Content:*1. Review multiplication properties and terms2. Review division rules3....

*Skills & Learning Targets:*1. Master fact families through 122. Divide numbers with one remainder.

*Standards & Benchmarks:*

SAMPLE-Math 3; Villa-Zang, Amber; Meadowview School; Grade 3; Mathematics

### Operations- Multiplication & Division (Week 8 - Week 17)

*Essential Questions:*Why do I need mathematical operations? How do mathematical operations...

*Content:* 3.OA.A products of whole numberswhole-number quotients of whole...

*Skills & Learning Targets:* 3.OA.A interpret products of whole numbersinterpret whole-number...

*Resources:*enVisionmath 2.0Common Core Coach by Triumph LearningCommon Core...

*Enduring Understandings:*Operations create relationships between numbers. The relationships among...

*Standards & Benchmarks:*IL: Mathematics IL: Grade 3 Operations & Algebraic Thinking 3.OA.A....

*Academic Vocabulary:* Critical - multiplication, division, quotient, measurement...

Math 3 (C) ; Collaboration; District 160; Grade 3; Mathematics

### Applying Multiplication and Division (Week 9 - Week 17)

*Essential Questions:*Why do I need mathematical operations? How do mathematical operations...

*Content:* 3.OA.A Multiplication and division within 100Equal groups, arrays,...

*Skills & Learning Targets:* 3.OA.A Use multiplication and division within 100 to solve word...

*Resources:*enVisionmath2.0Google Drive Resources Common Core Coach by Triumph...

*Enduring Understandings:*Operations create relationships between numbers. The relationships among...

*Standards & Benchmarks:*IL: Mathematics IL: Grade 3 Operations & Algebraic Thinking 3.OA.A....

*Academic Vocabulary:* Critical- multiplication, division, product, equation, unknown,...

Math 3 (C) ; Collaboration; District 160; Grade 3; Mathematics

### Number Theories and Averages (Week 9 - Week 11)

*Essential Questions:*1. What is the difference between prime and composite numbers?2. How can...

*Content:*1. Factors and Multiples2. Prime and Composite Numbers3. Find averages

*Skills & Learning Targets:*1. Find factors and multiples of whole numbers2. Tell if a number is prime...

*Standards & Benchmarks:*

SAMPLE-Math 3; Villa-Zang, Amber; Meadowview School; Grade 3; Mathematics

### Multiplication (Week 12 - Week 14)

*Essential Questions:*1. What are the steps used to multiply 2 and 3 digits by one digit?

*Content:*1. Multiply two-digits by one-digit2. Multiply multiples of 10, 100,...

*Skills & Learning Targets:*1. Multiply 2 and 3 digits by one digit2. Multiply two-digit by two-digits

*Standards & Benchmarks:*

SAMPLE-Math 3; Villa-Zang, Amber; Meadowview School; Grade 3; Mathematics

### Division (Week 15 - Week 18)

*Essential Questions:*1. What are the steps used to solve a long division problem? 2. Why is...

*Content:*1. Regroup in division 2. Divide multiples of 10, 100, and 1000 3....

*Skills & Learning Targets:*1. Long division

*Standards & Benchmarks:*

SAMPLE-Math 3; Villa-Zang, Amber; Meadowview School; Grade 3; Mathematics

## Fractions (Week 17 - Week 22)

*Essential Questions:* How can I use fractions in real life? How many ways can we use models to...

*Content:* 3.NF fraction  $1/b$  and  $a/b$  as a number on the number...

*Skills & Learning Targets:* 3.NF show a fraction  $1/b$  as the quantity formed by 1 part when a...

*Resources:* enVisionmath 2.0 Common Core Coach by Triumph Learning Common Core...

*Enduring Understandings:* Fractions are part of a whole. There are many ways to represent a number...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 3 Number & Operations—Fractions 3.NF.A. Develop u...

*Academic Vocabulary:* Critical-  $1/b$ ,  $a/b$ , partition, equal parts, equivalent fractions, number...

**Math 3 (C)**; [Collaboration](#); District 160; Grade 3; Mathematics

## Area (Week 18 - Week 19)

*Essential Questions:* Why do I measure? How can area be measured and found?

*Content:* 3.MD.C Area as an attribute of plane figures Area in square...

*Skills & Learning Targets:* 3.MD.C Recognize area as an attribute of plane figures. Demonstrate...

*Resources:* enVisionmath 2.0 Google Drive Resources [Common Core Coach](#) by Triumph...

*Enduring Understandings:* Measurement describes the attributes of objects and events. All...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 3 Measurement & Data 3.MD.C. Geometric...

*Academic Vocabulary:* Critical- area, unit square, square unit, estimate, plane...

**Math 3 (C)**; [Collaboration](#); District 160; Grade 3; Mathematics

## Measurement (Week 18 - Week 20)

*Essential Questions:* 1. When are customary and metric units of measurement used in the real...

*Content:* 1. Explore customary units of length 2. Inch, foot, yard, and...

*Skills & Learning Targets:* 1. Estimate and measure the length of an object and its capacity in...

*Standards & Benchmarks:*

**SAMPLE-Math 3**; [Villa-Zang, Amber](#); Meadowview School; Grade 3; Mathematics

## Data (Week 20 - Week 21)

*Essential Questions:* How can data be represented, interpreted and analyzed?

*Content:* 3.OA.A Multiplication and division within 100 Equal groups, arrays...

*Skills & Learning Targets:* 3.OA.A Use multiplication and division within 100. Involving equal...

*Resources:* enVisionmath 2.0 Google Drive Resources [Common Core Coach](#) by Triumph...

*Enduring Understandings:* Some problems can be solved by making, reading and analyzing a graph. The...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 3 Operations & Algebraic Thinking 3.OA.A....

*Academic Vocabulary:* Critical- data, scaled picture graph, scale, key, scaled bar...

**Math 3 (C)**; [Collaboration](#); District 160; Grade 3; Mathematics

## Time/Temperature (Week 20 - Week 21)

*Essential Questions:* 1. In what types of situations would the concept of elapsed time be...

*Content:* 1. Calendar 2. Elapsed time 3. Temperature and negative numbers

*Skills & Learning Targets:* 1. Estimate and measure temperature to the nearest degree 2. Identify...

*Standards & Benchmarks:*

**SAMPLE-Math 3**; [Villa-Zang, Amber](#); Meadowview School; Grade 3; Mathematics

## Measurement (Week 21 - Week 26)

*Essential Questions:* Why do I measure? Why do I need standardized units of measurement? How...

*Content:* 3.MD.A time to the nearest minute time intervals in minutes word...

*Skills & Learning Targets:* 3.MD.A tell and write time to the nearest minute measure time...

*Resources:*enVisionmath 2.0Common Core Coach by Triumph LearningCommon Core...  
*Enduring Understandings:*Measurement describes the attributes of objects and events. Standard units...  
*Standards & Benchmarks:*IL: Mathematics IL: Grade 3 Measurement & Data 3.MD.A. Solve problems...  
*Academic Vocabulary:* Critical- nearest minute, time interval, volume, mass, gallon,...

**Math 3 (C)** ; [Collaboration](#); District 160; Grade 3; Mathematics

### Collect, Analyze and Graph Data (Week 21 - Week 23)

*Essential Questions:*1. What are the definitions of mean, median, mode and range? 2. When...  
*Content:*1. Collect and organize data 2. Mean, median, mode, and range 3...  
*Skills & Learning Targets:*1. Collect data to organize and create appropriate graphs 2. Analyze...  
*Standards & Benchmarks:*

**SAMPLE-Math 3**; [Villa-Zang, Amber](#); Meadowview School; Grade 3; Mathematics

### Place Value and Operations (Week 22 - Week 26)

*Essential Questions:*What is the relationship between addition and subtraction? What strategies...  
*Content:* 3.OA.D Two-step word problemsEquations with a letter standing for...  
*Skills & Learning Targets:* 3.OA.D Solve two-step word problems using the four...  
*Resources:*enVisionmath2.0Google Drive Resources Common Core Coach by Triumph...  
*Enduring Understandings:*Patterns provide insights into potential relationships. Strategies can...  
*Standards & Benchmarks:*IL: Mathematics IL: Grade 3 Operations & Algebraic Thinking 3.OA.D. Solve...  
*Academic Vocabulary:* Critical- Associative Property of Addition, Commutative Property...

**Math 3 (C)** ; [Collaboration](#); District 160; Grade 3; Mathematics

### Geometry (Week 24 - Week 26)

*Essential Questions:*1. What are some real world examples of geometric figures? 2. How are...  
*Content:*1. Points, lines, and line segments 2. Rays and angles 3. Measure...  
*Skills & Learning Targets:*1. Identify rectangular prisms, cubes, spheres, pyramids, cones, and...  
*Standards & Benchmarks:*

**SAMPLE-Math 3**; [Villa-Zang, Amber](#); Meadowview School; Grade 3; Mathematics

### Data (Week 25 - Week 30)

*Essential Questions:*What is a pattern? How do I describe a pattern? How do I express a pattern...  
*Content:* 3.MD.B scaled picture graphs; scaled bar graphsmeasurement data  
*Skills & Learning Targets:* 3.MD.B draw a scaled picture graph and a scaled bar graphs...  
*Resources:*enVisionmath 2.0Common Core Coach by Triumph LearningCommon Core...  
*Enduring Understandings:*Patterns and relationships can be represented numerically, graphically,...  
*Standards & Benchmarks:*IL: Mathematics IL: Grade 3 Measurement & Data 3.MD.B. Represent and...  
*Academic Vocabulary:* Critical - scaled picture graphs, scaled bar graphs, data set,...

**Math 3 (C)** ; [Collaboration](#); District 160; Grade 3; Mathematics

### Fractions (Week 27 - Week 33)

*Essential Questions:*How do I identify the whole? How do I explain the meaning of a fraction?...  
*Content:* 3.MD.B Measurement dataRulers marked with halves and fourths of an...  
*Skills & Learning Targets:* 3.MD.B Generate measurement data.Measuring lengths using rulers...  
*Resources:*enVisionmath2.0Google Drive Resources Common Core Coach by Triumph...  
*Enduring Understandings:*Fractions are part of a whole. Fractional parts with different...  
*Standards & Benchmarks:*IL: Mathematics IL: Grade 3 Measurement & Data 3.MD.B. Represent and...  
*Academic Vocabulary:* Critical- fraction, unit fraction, numerator, denominator,...

**Math 3 (C)** ; [Collaboration](#); District 160; Grade 3; Mathematics

## Fractions/Decimals (Week 27 - Week 29)

*Essential Questions:*1. What is the relationship between mixed numbers and improper...

*Content:*1. Represent fractions 2. Equivalent fractions and simplest...

*Skills & Learning Targets:*1. Compare and put whole numbers, fractions and decimals in order to six...

*Standards & Benchmarks:*

[SAMPLE-Math 3](#); [Villa-Zang, Amber](#); Meadowview School; Grade 3; Mathematics

## Probability (Week 29 - Week 32)

*Essential Questions:*1. How can you use prediction to find the probability of outcomes?

*Content:*1. Probability

*Skills & Learning Targets:*1. Decide the probability that something will happen 2. Predict...

*Standards & Benchmarks:*

[SAMPLE-Math 3](#); [Villa-Zang, Amber](#); Meadowview School; Grade 3; Mathematics

## Geometry (Week 31 - Week 36)

*Essential Questions:*How do geometric models describe spatial relationships? How are geometric...

*Content:* [3.GA.1](#) shapes in different categories [3.G.A.2](#) shapes into...

*Skills & Learning Targets:* [3.G.A.1](#) show that shapes in different categories may share...

*Resources:*enVisionmath 2.0Common Core Coach by Triumph LearningCommon Core...

*Enduring Understandings:*Geometry and spatial sense offer ways to interpret and reflect on our...

*Standards & Benchmarks:*IL: Mathematics IL: Grade 3 Geometry [3.G.A.](#) Reason with shapes and their...

*Academic Vocabulary:* Critical- attribute, quadrilateral, cube, cylinder, pentagon,...

[Math 3 \(C\)](#) ; [Collaboration](#); District 160; Grade 3; Mathematics

## Algebra (Week 33 - Week 37)

*Essential Questions:*1. How do you use the order of operations to simplify expressions? 2....

*Content:*1. Order of Operations 2. Words in Expressions 3. Compare...

*Skills & Learning Targets:*1. Use the order of operations to simplify expressions 2. Use...

*Standards & Benchmarks:*

[SAMPLE-Math 3](#); [Villa-Zang, Amber](#); Meadowview School; Grade 3; Mathematics

## Measurement (Week 34 - Week 35)

*Essential Questions:*How can time, capacity, and mass be measured and found?

*Content:* [3.MD.A](#) Time to the nearest minuteTime intervals in minutesWord...

*Skills & Learning Targets:* [3.MD.A](#) Tell and write time to the nearest minute.Measure time...

*Resources:*enVisionmath2.0Google Drive Resources [Common Core Coach](#) by Triumph...

*Enduring Understandings:*Time is measured in many different size units. Measurement describes the...

*Standards & Benchmarks:*IL: Mathematics IL: Grade 3 Measurement & Data [3.MD.A.](#) Solve problems...

*Academic Vocabulary:* Critical- elapsed time, a.m, p.m, time interval, capacity,...

[Math 3 \(C\)](#) ; [Collaboration](#); District 160; Grade 3; Mathematics

## Geometry (Week 36 - Week 37)

*Essential Questions:*How can two-dimensional shapes be described, analyzed and classified? How...

*Content:* [3.MD](#) Side lengthsAreas of rectanglesReal-world and mathematical...

*Skills & Learning Targets:* [3.MD](#) Multiply side lengths to find areas of rectangles.Solve...


*Resources:*enVisionmath2.0Google Drive Resources [Common Core Coach](#) by Triumph...

*Enduring Understandings:*Shapes can be classified by their attributes. Polygons with the same area...

*Standards & Benchmarks:*IL: Mathematics IL: Grade 3 Measurement & Data [3.MD.C.](#) Geometric...



*Academic Vocabulary:* Critical - polygon, side, quadrilateral, vertex, angle, trapezoid,...

Math 3 (C); Collaboration; District 160; Grade 3; Mathematics

# Mathematics – Fourth Grade

## Place Value (Week 1 - Week 4)

*Essential Questions:* How are greater numbers written? How can whole numbers be compared? How...

*Content:* 4.NBT.A.1 A digit in one place represents ten times the digit to...

*Skills & Learning Targets:* 4.NBT.A.1 Recognize a digit in one place is ten times more than...

*Resources:* enVisionmath 2.0 Common Core Coach by Triumph Learning Common...

*Enduring Understandings:* Numbers are made up of digits which have a certain value based on their...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 4 Number & Operations in Base Ten 4.NBT.A....

*Academic Vocabulary:* Critical Terms : millions Supplemental : number names,...

**Math 4 (C)** ; Collaboration; District 160; Grade 4; Mathematics

## Operations: Addition and Subtraction (Week 5 - Week 8)

*Essential Questions:* How can sums and differences of whole numbers be estimated? What are...

*Content:* 4.OA.3 Multistep word problems Add whole numbers Subtract whole...

*Skills & Learning Targets:* 4.OA.3 Solve multistep word problems using addition and...

*Resources:* enVisionmath 2.0 Common Core Coach by Triumph Learning Common...

*Enduring Understandings:* There is more than one way to do a mental calculation. In certain...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 4 Operations & Algebraic Thinking 4.OA.A. Use...

*Academic Vocabulary:* Critical Terms : Associative Property of Addition, Identity...

**Math 4 (C)** ; Collaboration; District 160; Grade 4; Mathematics

## Operations: Multiplication (Week 9 - Week 14)

*Essential Questions:* How can you multiply by multiples of 10, 100, and 1000? How can you...

*Content:* 4.OA.A Multiplicative comparisons Multiplication and division word...

*Skills & Learning Targets:* 4.OA.A Interpret a multiplicative equation as a...

*Resources:* enVisionmath 2.0 Common Core Coach by Triumph Learning Common...

*Enduring Understandings:* There is more than one way to do a mental calculation. In certain...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 4 Operations & Algebraic Thinking 4.OA.A. Use...

*Academic Vocabulary:* Critical Terms : Associative Property of Multiplication,...

**Math 4 (C)** ; Collaboration; District 160; Grade 4; Mathematics

## Operations: Division (Week 15 - Week 19)

*Essential Questions:* How can you estimate when you divide? How can you use models to divide?...

*Content:* 4.OA.A Division word problems Multistep word problems using...

*Skills & Learning Targets:* 4.OA.A Divide to solve word problems with one or more steps Assess...

*Resources:* enVisionmath 2.0 Common Core Coach by Triumph Learning Common...

*Enduring Understandings:* There is more than one way to do a mental calculation. In certain...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 4 Operations & Algebraic Thinking 4.OA.A. Use...

*Academic Vocabulary:* Critical Terms ; compatible numbers, factor, multiple, area model,...

**Math 4 (C)** ; Collaboration; District 160; Grade 4; Mathematics

## Fractions and Decimals (Week 20 - Week 27)

*Essential Questions:* What are some ways to name the same part of a whole? How can you compare...

*Content:* 4.OA.B Factor pairs of whole numbers within 100 Multiples Prime and...

*Skills & Learning Targets:* 4.OA.B Find all factor pairs for a whole number within...

*Resources:* enVisionmath 2.0 Common Core Coach by Triumph Learning Common...

*Enduring Understandings:* Fluent math thinkers know a variety of strategies that allow them to be...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 4 Operations & Algebraic Thinking 4.OA.B. Gain...

*Academic Vocabulary:* Critical Terms : common factor, benchmark fraction, decompose,...

[Math 4 \(C\)](#) ; [Collaboration](#); [District 160](#); [Grade 4](#); [Mathematics](#)

[Measurement](#) (Week 28 - Week 30)

*Essential Questions:* How can you convert from one unit to another? How can you be precise when...

*Content:* [4.MD.A.1](#) Relative sizes of: km, m, cm; kg, g; lb, oz; l, ml; hr,...

*Skills & Learning Targets:* [4.MD.A.1](#) Know relative sizes of measurement (km, m, cm; kg, g; lb,...

*Resources:* [enVisionmath 2.0 Common Core Coach](#) by Triumph Learning [Common...](#)

*Enduring Understandings:* [Measurement describes the attributes of objects and events. Standard units...](#)

*Standards & Benchmarks:* [IL: Mathematics IL: Grade 4 Measurement & Data 4.MD.A. Solve problems...](#)

*Academic Vocabulary:* [Critical Terms : capacity, quart, gallon, cup, pint, fluid ounce,...](#)

[Math 4 \(C\)](#) ; [Collaboration](#); [District 160](#); [Grade 4](#); [Mathematics](#)

[Data/Patterns](#) (Week 31 - Week 33)

*Essential Questions:* How can you use a rule to continue a pattern? How can you use a table to...

*Content:* [4.O.A.C.5](#) Shape and number patterns [4.MD.B.4](#) Line...

*Skills & Learning Targets:* [4.O.A.C.5](#) Generate number and shape patterns. Identify features of...

*Resources:* [enVisionmath 2.0 Common Core Coach](#) by Triumph Learning [Common...](#)

*Enduring Understandings:* [Patterns and relationships can be represented numerically or symbolically....](#)

*Standards & Benchmarks:* [IL: Mathematics IL: Grade 4 Operations & Algebraic Thinking 4.OA.C....](#)

*Academic Vocabulary:* [Critical Terms: line plot Supplemental Terms : patterns](#)

[Math 4 \(C\)](#) ; [Collaboration](#); [District 160](#); [Grade 4](#); [Mathematics](#)

[Geometry](#) (Week 34 - Week 36)

*Essential Questions:* What are some common geometric terms? How can you measure angles? How can...

*Content:* [4.MD.C.5](#) Angles Rays Common endpoints Addition/subtraction of...

*Skills & Learning Targets:* [4.MD.C.5](#) Recognize how angles are constructed. Understand angle...

*Resources:* [enVisionmath 2.0 Common Core Coach](#) by Triumph Learning [Common...](#)

*Enduring Understandings:* [Geometric shapes are determined by their attributes. Geometry is part of...](#)

*Standards & Benchmarks:* [IL: Mathematics IL: Grade 4 Measurement & Data 4.MD.C. Geometric...](#)

*Academic Vocabulary:* [Critical Terms : point, line, line segment, ray, endpoint, angle....](#)

[Math 4 \(C\)](#) ; [Collaboration](#); [District 160](#); [Grade 4](#); [Mathematics](#)

# Mathematics – Fifth Grade

## Whole Number Computation (Week 1 - Week 7)

*Essential Questions:* What can affect the relationship between numbers? How do we solve problems...

*Content:* [5.OA.1](#) Parentheses Brackets Braces [5.NBT.6](#)...

*Skills & Learning Targets:* [5.OA.1](#) Evaluate expressions. [5.NBT.6](#) Illustrate and explain...

*Resources:* enVisionmath 2.0 Google Drive...

*Enduring Understandings:* The relationships among the operations and their properties promote...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 5 Operations & Algebraic Thinking [5.OA.A](#). Write...

*Academic Vocabulary:* Critical : evaluate, expressions, equations, quotients, dividends,...

**Math 5 (C); Chagnon, Rebecca;** District 160; Grade 5; Mathematics

## Decimal Computation (Week 6 - Week 11)

*Essential Questions:* How are whole numbers and decimals written, compared, and ordered? What...

*Content:* [5.NBT.1](#) Parentheses Brackets or braces [5.NBT.3](#) Decimals to...

*Skills & Learning Targets:* [5.NBT.1](#) Evaluate expressions using parentheses, brackets or...

*Resources:* enVisionmath 2.0 Google Drive...

*Enduring Understandings:* Numbers are made up of digits which have value based on their position in...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 5 Number & Operations in Base Ten [5.NBT.A](#)...

*Academic Vocabulary:* Critical : expressions, parentheses, brackets Supplemental...

**Math 5 (C); Chagnon, Rebecca;** District 160; Grade 5; Mathematics

## Operations With Fractions (Week 12 - Week 17)

*Essential Questions:* How can models be used to compute fractions with like and unlike...

*Content:* [5.NF.1](#) Unlike denominators Equivalent fractions [5.NF.2](#)...

*Skills & Learning Targets:* [5.NF.1](#) Add and subtract fractions with unlike denominators. Replace...

*Resources:* enVisionmath 2.0 Google Drive...

*Enduring Understandings:* A fraction describes the division of a whole into equal parts. Equivalent...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 5 Number & Operations—Fractions [5.NF.A](#). Use e...

*Academic Vocabulary:* Critical: unlike denominators Supplemental : fractions,...

**Math 5 (C); Chagnon, Rebecca;** District 160; Grade 5; Mathematics

## Applications With Fractions (Week 18 - Week 23)

*Essential Questions:* How do I identify and record the fraction of a whole or group in division?...

*Content:* [5.NF.3](#) Fraction Division Numerator Denominator [5.NF.6](#)...

*Skills & Learning Targets:* [5.NF.3](#) Interpret a fraction as division of the numerator by the...

*Resources:* enVisionmath 2.0 Google Drive...

*Enduring Understandings:* A fraction describes the division of a whole into equal parts. The inverse...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 5 Number & Operations—Fractions [5.NF.B](#). Apply a...

*Academic Vocabulary:* Critical : unit fraction Supplemental: fraction,...

**Math 5 (C); Chagnon, Rebecca;** District 160; Grade 5; Mathematics

## Coordinate Geometry (Week 24 - Week 30)

*Essential Questions:* How are the values of an algebraic expression and a numerical expression...

*Content:* [5.OA.1](#) Parentheses Brackets or braces [5.G.1](#) Coordinate...

*Skills & Learning Targets:* [5.OA.1](#) Evaluate expressions. [5.G.1](#) Define the properties of...

*Resources:* enVisionmath 2.0 Google Drive...

*Enduring Understandings:* Operations create relationships between numbers. Patterns that repeat in...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 5 Operations & Algebraic Thinking [5.OA.A](#). Write...

*Academic Vocabulary:* Critical : coordinate system, origin, axis Supplemental : ...

**Math 5 (C); Chagnon, Rebecca;** District 160; Grade 5; Mathematics

## 2-Dimensional Geometry (Week 31 - Week 34)

*Essential Questions:* How can angles be measured and classified? How can polygons be described,...

*Content:* 5.G.1 Coordinate system Origin Axis

*Skills & Learning Targets:* 5.G.1 Define the properties of a coordinate system. Identify the...

*Resources:* enVisionmath 2.0 Google Drive...

*Enduring Understandings:* Mathematical relationships represented by rules can also be represented by...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 5 Geometry 5.G.A. Graph points on the coordinate...

*Academic Vocabulary:* Critical : coordinate system, origin, axis, two-dimensional...

**Math 5 (C); Chagnon, Rebecca;** District 160; Grade 5; Mathematics

## Volume (Week 35 - Week 37)

*Essential Questions:* How can three-dimensional shapes be represented and analyzed? What is...

*Content:* 5.MD.3 Volume 5.MD.4 Unit cube 5.MD.5 Rectangular...

*Skills & Learning Targets:* 5.MD.3 Apply concepts of volume. 5.MD.4 Measure volume...

*Resources:* enVisionmath 2.0 Google Drive...

*Enduring Understandings:* Volume can be used to solve a variety of real life problems. Geometry and...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 5 Measurement & Data 5.MD.C. Geometric...

*Academic Vocabulary:* Critical: volume, rectangular prism, unit cube...

**Math 5 (C); Chagnon, Rebecca;** District 160; Grade 5; Mathematics

# Mathematics – Sixth Grade

## Factors, Fractions, & Multiples (Week 1 - Week 9)

*Essential Questions:* How do we compute fractions? How can I use fractions in real life? How can...

*Content:* 6.NS.4 Greatest common factorLeast common multiple

*Skills & Learning Targets:* 6.NS.4 Find the GCF (2 whole numbers less than or equal to...

*Resources:* CMP3Google Drive...

*Enduring Understandings:* There are many ways to represent a number. Number sense develops through...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 6 The Number System 6.NS.A. Apply and extend...

*Academic Vocabulary:* Critical : Distributive Property, prime factorization, exponent,...

**Math 6 (C)** ; Collaboration; District 160; Grade 6; Mathematics

## Rational Numbers (Week 9 - Week 14)

*Essential Questions:* How are positive and negative numbers related? How do rational numbers...

*Content:* 6.NS.5 Positive and negative numbers 6.NS.6 Rational...


*Skills & Learning Targets:* 6.NS.5 Identify positive and negative numbers both on and off a...

*Resources:* CMP3Google Drive...

*Enduring Understandings:* There are many ways to represent a number. Number sense develops through...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 6 The Number System 6.NS.C. Apply and extend...

*Academic Vocabulary:* Critical : integer, rational numbers, Distributive Property,...

**Math 6 (C)** ; Collaboration; District 160; Grade 6; Mathematics

## Ratios & Proportions (Week 15 - Week 19)

*Essential Questions:* When is it useful to relate one quantity to another? How are ratios and...

*Content:* 6.RP.1 Concept of a ratioRatio languageRatio relationship between...

*Skills & Learning Targets:* 6.RP.1 Identify ratios.Use ratio language.Describe ratios when...

*Resources:* CMP3Google Drive...

*Enduring Understandings:* There are many ways to represent a number. Number sense develops through...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 6 Ratios & Proportional Relationships 6.RP.A...

*Academic Vocabulary:* Critical : ratio, proportion, percent, unit rate, equivalent...

**Math 6 (C)** ; Collaboration; District 160; Grade 6; Mathematics

## Expressions (Week 20 - Week 25)

*Essential Questions:* What is equivalence? How are properties of operations used to prove...

*Content:* 6.EE.2 Expressions 6.EE.2a Operations 6.EE.2b...

*Skills & Learning Targets:* 6.EE.2 Write, read, and evaluate expression with variables...

*Resources:* CMP3Google Drive...

*Enduring Understandings:* Real world situations can be represented symbolically and graphically...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 6 The Number System 6. NS.B. Compute fluently...

*Academic Vocabulary:* Critical : order of operations, expressions, variable, exponents,...

**Math 6 (C)** ; Collaboration; District 160; Grade 6; Mathematics

## Equations (Week 24 - Week 28)

*Essential Questions:* How does the structure of equations help us solve equations? How does the...

*Content:* 6.EE.5 EquationInequalitySubstitution 6.EE.6...

*Skills & Learning Targets:* 6.EE.5 Interpret an equation or inequality as a process of...

*Resources:* CMP3Google Drive...

*Enduring Understandings:* Real world situations can be represented with symbols and graphs...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 6 Expressions & Equations 6.EE.B. Reason about...

*Academic Vocabulary:* Critical : equations, substitution Supplemental : order of...

[Math 6 \(C\)](#) ; [Collaboration](#); District 160; Grade 6; Mathematics

### [Dependent & Independent Variables](#) (Week 28 - Week 32)

*Essential Questions:* Why are variables used in equations? What might a variable represent in a...

*Content:* [6.EE.9](#) Variables Equation Dependent variable Independent variable

*Skills & Learning Targets:* [6.EE.9](#) Use variables to represent two quantities in a real-world...

*Resources:* [CMP3](#) [Google Drive](#)...

*Enduring Understandings:* Real world situations can be represented with symbols and graphs....

*Standards & Benchmarks:* IL: Mathematics IL: Grade 6 The Number System [6.NS.C](#). Apply and extend...

*Academic Vocabulary:* [Critical](#) : dependent variable, independent variable...

[Math 6 \(C\)](#) ; [Collaboration](#); District 160; Grade 6; Mathematics

### [Statistics](#) (Week 33 - Week 34)

*Essential Questions:* How do we analyze and interpret data sets? When is one data display better...

*Content:* [6.SP.1](#) Statistical question Variability Data [6.SP.4](#) Numerical...

*Skills & Learning Targets:* [6.SP.1](#) Recognize a statistical question to anticipate variability...

*Resources:* [CMP3](#) [Google Drive](#)...

*Enduring Understandings:* In certain situations, an estimate is as useful as an exact answer. The...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 6 Ratios & Proportional Relationships [6.RP.A](#)....

*Academic Vocabulary:* [Critical](#) : outcome, tree diagram, frequency table, stem and leaf...

[Math 6 \(C\)](#) ; [Collaboration](#); District 160; Grade 6; Mathematics

### [Geometry](#) (Week 35 - Week 37)

*Essential Questions:* How do you classify polygons? What methods can be used to find the area of...

*Content:* [6.G.1](#) Area Right triangle Triangles Special quadrilaterals Polygons...

*Skills & Learning Targets:* [6.G.1](#) Find area of various shapes including triangles,...

*Resources:* [CMP3](#) [Google Drive](#)...

*Enduring Understandings:* Measurement describes the attributes of objects and events. Standard units...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 6 Geometry [6.G.A](#). Solve real-world and...

*Academic Vocabulary:* [Critical](#) : radius, diameter, circumference, chord, complementary...

[Math 6 \(C\)](#) ; [Collaboration](#); District 160; Grade 6; Mathematics

# Mathematics – Seventh Grade

## Two-Dimensional Geometry (Week 1 - Week 4)

*Essential Questions:* How do you translate real world problems to algebraic expressions? How do...

*Content:* [7.EE.A.2](#) Expression [7.EE.B.4](#) VariablesQuantitiesReal-world...

*Skills & Learning Targets:* [7.EE.A.2](#) Write equivalent expressions with fractions, decimals,...

*Resources:* CMP3-Shapes and DesignsGoogle Drive...

*Enduring Understandings:* Operations create relationships between numbers. The relationships among...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 7 Expressions & Equations [7.EE.A](#). Use properties...

*Academic Vocabulary:* Critical : polygon, rotation, quadrants, complementary angles,...

**Math 7 (C)** ; Collaboration; District 160; Grade 7; Mathematics

## Integers and Rational Numbers (Week 5 - Week 9)

*Essential Questions:* How do I determine the best numerical representation (pictorial, symbolic,...

*Content:* [7.NS.A.1](#) AdditionSubtractionRational numbersNumber line...

*Skills & Learning Targets:* [7.NS.A.1](#) Describe situations in which opposite quantities combine...

*Resources:* CMP3- Accentuate the NegativeGoogle Drive...

*Enduring Understandings:* There are many ways to represent a number. Operations create relationships...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 7 The Number System [7.NS.A](#). Apply and extend...

*Academic Vocabulary:* Critical : integer, number sentence, opposites, rational number,...

**Math 7 (C)** ; Collaboration; District 160; Grade 7; Mathematics

## Understanding Similarity (Week 10 - Week 13)

*Essential Questions:* When and why do I use proportional comparisons? How does comparing...

*Content:* [7.RP.A.2](#) Proportional relationshipsQuantities [7.RP.A.3](#)...

*Skills & Learning Targets:* [7.RP.A.2](#) Determine that a proportion is a statement of equality...

*Resources:* CMP3 - Stretching and ShrinkingGoogle Drive...

*Enduring Understandings:* Proportional relationships express how quantities change in relationship...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 7 Ratios & Proportional Relationships [7.RP.A](#)....

*Academic Vocabulary:* Critical : image, scale drawing, corresponding angles,...

**Math 7 (C)** ; Collaboration; District 160; Grade 7; Mathematics

## Ratios, Rates, Percents, and Proportions (Week 14 - Week 19)

*Essential Questions:* How do rates, ratios, and proportional relationships apply to our world?...

*Content:* [7.RP.A.1](#) Unit ratesRatios of fractionsRatios of lengthsAreas and...

*Skills & Learning Targets:* [7.RP.A.1](#) Compute unit rates associated with ratios of fractions in...

*Resources:* CMP3 - Comparing and ScalingGoogle Drive...

*Enduring Understandings:* Proportional relationships express how quantities change in relationship...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 7 Ratios & Proportional Relationships [7.RP.A](#)....

*Academic Vocabulary:* Critical : ratio, part-to-part ratio, part-to-whole ratio,...

**Math 7 (C)** ; Collaboration; District 160; Grade 7; Mathematics

## Linear Relationships (Week 20 - Week 24)

*Essential Questions:* How does comparing quantities describe the relationship between them? When...

*Content:* [7.RP.A.2](#) Proportional relationshipsQuantities [7.EE.A.1](#)...

*Skills & Learning Targets:* [7.RP.A.1](#) Compute unit rates associated with ratios of fractions in...

*Resources:* CMP3 - Moving Straight AheadGoogle Drive...

*Enduring Understandings:* Proportional relationships express how quantities change in relationship...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 7 Ratios & Proportional Relationships [7.RP.A](#)....



*Academic Vocabulary:* Critical : linear relationship, dependent variable, independent...

**Math 7 (C)** ; [Collaboration](#); District 160; Grade 7; Mathematics

### Probability and Expected Value (Week 25 - Week 29)

*Essential Questions:* How can two data distributions be compared? How can statistics be used to...

*Content:* 7.RP.A.2 Proportional relationshipsQuantities 7.RP.A.3...


*Skills & Learning Targets:* 7.RP.A.2 Determine that a proportion is a statement of equality...

*Resources:* CMP3 - What do you Expect?Google Drive...

*Enduring Understandings:* The way that data is collected, organized and displayed influences...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 7 Ratios & Proportional Relationships 7.RP.A....

*Academic Vocabulary:* Critical : probability, experimental probability, favorable...

**Math 7 (C)** ; [Collaboration](#); District 160; Grade 7; Mathematics

### Three-Dimensional Measurement (Week 30 - Week 34)

*Essential Questions:* How are geometric shapes and objects classified? How do you solve problems...

*Content:* 7.RP.A.2 Proportional relationshipsQuantities 7.NS.A.3...

*Skills & Learning Targets:* 7.RP.A.2 Determine that a proportion is a statement of equality...

*Resources:* CMP3 - Filling and WrappingGoogle Drive...

*Enduring Understandings:* Proportional relationships express how quantities change in relationship...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 7 Ratios & Proportional Relationships 7.RP.A....

*Academic Vocabulary:* Critical : rectangular prism, regular prism, right prism, pyramid,...

**Math 7 (C)** ; [Collaboration](#); District 160; Grade 7; Mathematics

### Making Comparisons and Predictions (Week 35 - Week 37)

*Essential Questions:* Why is data collected and analyzed? How do people use data to influence...

*Content:* 7.RP.A.2 Proportional relationshipsQuantities 7.RP.A.3...

*Skills & Learning Targets:* 7.RP.A.2 Determine that a proportion is a statement of equality...

*Resources:* CMP3 - Samples and PopulationsGoogle Drive...

*Enduring Understandings:* Proportional relationships express how quantities change in relationship...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 7 Ratios & Proportional Relationships 7.RP.A....

*Academic Vocabulary:* Critical : relative frequency, census, population, sample,...

**Math 7 (C)** ; [Collaboration](#); District 160; Grade 7; Mathematics

# Mathematics – Eighth Grade

## The Number System (Week 1 - Week 4)

*Essential Questions:* How do you convert a rational number into a decimal? How do you use a...

*Content:* 8.NS Rational numbers Irrational numbers Rational approximations

*Skills & Learning Targets:* 8.NS Show that every number has a decimal expansion. Show that the...

*Resources:* CMP3 Google Drive...

*Enduring Understandings:* Numbers can be written in different forms. A number line is one way to...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 8 The Number System 8.NS.A. Know that there are...

*Academic Vocabulary:* Critical: rational, irrational Supplemental: factor tree,...

**Math 8 (C)** ; Collaboration; District 160; Grade 8; Mathematics

## Expressions and Equations Rational Numbers (Week 5 - Week 10)

*Essential Questions:* How do you evaluate a numerical expression with integer exponents? What is...

*Content:* 8.EE.A.1 Zero exponent A number raised to an exponent of...

*Skills & Learning Targets:* 8.EE.A.1 Explain how a number raised to an exponent of -1 is the...

*Resources:* CMP3 Google Drive...

*Enduring Understandings:* Numbers can be written in different forms for different purposes

*Standards & Benchmarks:* IL: Mathematics IL: Grade 8 Expressions & Equations 8.EE.A. Work with...

*Academic Vocabulary:* Critical: cube root, exponential growth, exponential decay,...

**Math 8 (C)** ; Collaboration; District 160; Grade 8; Mathematics

## Expressions and Equations Linear Equations (Week 10 - Week 14)

*Essential Questions:* How do you use the slope formula? How do you use functions to model...

*Content:* 8.EE.5 Rate of change Slope Proportional relationships...

*Skills & Learning Targets:* 8.EE.5 Determine the rate of change by the definition of...

*Resources:* CMP3 Google Drive...

*Enduring Understandings:* Proportional relationships express how quantities change in relationship...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 8 Expressions & Equations 8.EE.B. Understand the...

*Academic Vocabulary:* Critical: rate of change, slope, proportional relationships, pair...

**Math 8 (C)** ; Collaboration; District 160; Grade 8; Mathematics

## Expressions and Equations Systems of Equations (Week 15 - Week 18)

*Essential Questions:* How do you solve linear equations with one or more solutions? How do you...

*Content:* 8.EE.7 Linear equations One variable One solution Equivalent equation...

*Skills & Learning Targets:* 8.EE.7 Give examples of linear equations in one variable with one...

*Resources:* CMP3 Google Drive...

*Enduring Understandings:* Real world situations can be represented symbolically and graphically...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 8 Expressions & Equations 8.EE.C. Analyze and...

*Academic Vocabulary:* Critical: linear equations, one variable, one solution,...

**Math 8 (C)** ; Collaboration; District 160; Grade 8; Mathematics

## Functions (Week 19 - Week 22)

*Essential Questions:* How do you use functions to model relationships between quantities? How do...

*Content:* 8.F.1 Function Function rule Input Output Ordered pairs 8.F.2...

*Skills & Learning Targets:* 8.F.1 Determine if an equation represents a function. Apply a...

*Resources:* CMP3 Google Drive...

*Enduring Understandings:* Patterns and relationships can be represented numerically, graphically,...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 8 Functions 8.F.A. Define, evaluate, and compare...

*Academic Vocabulary:* Critical: inverse function, arithmetic sequence, geometric...

**Math 8 (C)**; Collaboration; District 160; Grade 8; Mathematics

### Geometry: Transformations (Week 23 - Week 24)

*Essential Questions:* In what ways can I match solid geometric figures to real-life objects?...

*Content:* 8.G.A.1 .Properties of rotationsReflectionsTranslationsLine...

*Skills & Learning Targets:* 8.G.A.1. Define and identify rotations, reflections, and...

*Resources:* CMP3Google Drive...

*Enduring Understandings:* Measurement describes the attributes of objects and events. Geometry and...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 8 Geometry 8.G.A. Understand congruence and...

*Academic Vocabulary:* Critical: properties of rotations, reflections, translation, line...

**Math 8 (C)**; Collaboration; District 160; Grade 8; Mathematics

### Geometry: Pythagorean Theorem (Week 25 - Week 26)

*Essential Questions:* What is the Pythagorean Theorem? Why does the Pythagorean Theorem apply...

*Content:* 8.G.B.6 Pythagorean TheoremConverseLegsHypotenuse 8.G.B.8...

*Skills & Learning Targets:* 8.G.B.6 Define key vocabulary: square root, Pythagorean Theorem,...

*Resources:* CMP3Google Drive...

*Enduring Understandings:* Operations create relationships between numbers. The relationships among...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 8 Geometry 8.G.B. Understand and apply the...

*Academic Vocabulary:* Critical : converse, legs, hypotenuse, distance ,Pythagorean...

**Math 8 (C)**; Collaboration; District 160; Grade 8; Mathematics

### Geometry: Three Dimensional Figures (Week 27 - Week 30)

*Essential Questions:* How do we determine the volume of rounded objects? How can the area or...

*Content:* 8.G.B.9 VolumeConeCylinderSphere

*Skills & Learning Targets:* 8.G.B.9 Identify and define vocabulary: cone, cylinder, sphere,...

*Resources:* CMP3Google Drive...

*Enduring Understandings:* Geometry and spatial sense offer ways to interpret and reflect on our...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 8 Geometry 8.G.C. Solve real-world and...

*Academic Vocabulary:* Critical: cone, cylinder, sphere Supplemental : diameter,...

**Math 8 (C)**; Collaboration; District 160; Grade 8; Mathematics

### Statistics and Probability (Week 31 - Week 37)

*Essential Questions:* What relationships can be seen in bivariate data? What conclusions can be...

*Content:* 8.SP.A.1 Scatter plotsBivariate...

*Skills & Learning Targets:* 8.SP.A.1 Describe patterns such as clustering, outliers, positive or n...

*Resources:* CMP3Google Drive...

*Enduring Understandings:* The way that data is collected, organized and displayed influences...

*Standards & Benchmarks:* IL: Mathematics IL: Grade 8 Statistics & Probability 8.SP.A. Investigate...

*Academic Vocabulary:* Critical : bivariate, clustering, outliers, scatter plots, linear ...

**Math 8 (C)**; Collaboration; District 160; Grade 8; Mathematics