



PGCPS Professional Learning: Grade 5 Teachers with UMath X – March 2016

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If you have questions, contact: Brenda Mathies at bmathies@neufeldlearning.com OR 1.866.429.6284

For additional help, visit: www.umathx.com to view videos

A Summary of Quarter 4: Geometry, Measurement & Data, and Fractions

CCSS MENU

UMATH X MENU

Unit 10: Classifying Two-Dimensional Figures and Conversions

- 5.G.02.03** Measurement & Geometry/Perimeter and Area of Polygons/Polygons/What Are They?
and Measurement & Geometry/Perimeter and Area of Polygons/Polygons/Regular v. Irregular
- 5.G.02.04** Measurement & Geometry/Perimeter and Area of Polygons/Polygons/Triangles/Definition
Measurement & Geometry/Perimeter and Area of Polygons/Polygons/Triangles/Classification/By Sides
Measurement & Geometry/Perimeter and Area of Polygons/Polygons/Triangles/Classification/By Angles
Measurement & Geometry/Perimeter and Area of Polygons/Polygons/Quadrilaterals/Classification/Trapezoid
Measurement & Geometry/Perimeter and Area of Polygons/Polygons/Quadrilaterals/Classification/
Parallelogram
Measurement & Geometry/Perimeter and Area of Polygons/Polygons/Quadrilaterals/Classification/Rectangle
Measurement & Geometry/Perimeter and Area of Polygons/Polygons/Quadrilaterals/Classification/Rhombus
Measurement & Geometry/Perimeter and Area of Polygons/Polygons/Quadrilaterals/Classification/Square
Measurement & Geometry/Perimeter and Area of Polygons/Classify Polygons/Venn Diagrams/Red &
Regular
Measurement & Geometry/Perimeter and Area of Polygons/Classify Polygons/Venn Diagrams/Parallel &
Perpendicular Lines
Measurement & Geometry/Perimeter and Area of Polygons/Classify Polygons/Hierarchy/Polygons
Measurement & Geometry/Perimeter and Area of Polygons/Classify Polygons/Hierarchy/Quadrilaterals
Measurement & Geometry/Perimeter and Area of Polygons/Classify Polygons/Hierarchy/Triangles
- Frameworks:** **Classifying Two-Dimensional Shapes**
Classifying Triangles
Classifying Quadrilaterals
- 5.MD.01.01** Measurement & Geometry/An Introduction to Measurement/US Standard Conversions - Length/Converting
Measurement & Geometry/An Introduction to Measurement/Metric Conversions - Length/Understanding
Metric Prefixes
Measurement & Geometry/An Introduction to Measurement/Metric Conversions - Length/Metric Prefixes at
Work
Measurement & Geometry/An Introduction to Measurement/Metric Conversions - Length/Metric
Match/Introduction
Measurement & Geometry/An Introduction to Measurement/Metric Conversions - Length/Metric
Match/Examples
Measurement & Geometry/An Introduction to Measurement/Metric Conversions - Length/Converting
- Framework:** **Metric Prefixes – Length**

Unit 11: Understand and Apply the Concepts of Volume

- 5.MD.03.03a** Measurement & Geometry/Solids... Volumes and Surface Area/Volume of a Solid/Cubic Units
and Measurement & Geometry/Solids... Volumes and Surface Area/Volume of a Solid/Volume of Rectangular
- 5.MD.03.03b** Prisms/Example 1
Measurement & Geometry/Solids... Volumes and Surface Area/Volume of a Solid/Volume of Rectangular
Prisms/Example 2
- Frameworks:** **Volume of Rectangular Prisms**



- 5.MD.03.04** Measurement & Geometry/Solids...Volumes and Surface Area/Volume of a Solid/Concept
Measurement & Geometry/Solids...Volumes and Surface Area/Volume of a Solid/Volume of a Prism:
Formula 1
Measurement & Geometry/Solids...Volumes and Surface Area/Volume of a Solid/Cubic Units
Measurement & Geometry/Solids...Volumes and Surface Area/Volume of a Solid/Fill 'Em Up/Intro
Measurement & Geometry/Solids... Volumes and Surface Area/Volume of a Solid/Fill 'Em Up/Sugar Cubes
Measurement & Geometry/Solids... Volumes and Surface Area/Volume of a Solid/Fill 'Em Up/Closet
Measurement & Geometry/Solids... Volumes and Surface Area/Volume of a Solid/Moving Van
Framework: Volume of a Solid – Fill 'Em Up

- 5.MD.03.05a** Measurement & Geometry/Solids...Volumes and Surface Area/Volume of a Solid/Volume of a Prism:
Formula 1

- 5.MD.03.05b** Measurement & Geometry/Solids...Volumes and Surface Area/Volume of a Solid/Volume of a Prism:
Formula 2

- 5.MD.03.05c** Measurement & Geometry/Solids... Volumes and Surface Area/Real World Problems/Non-Overlapping
Rectangular Prisms/The Pool
Measurement & Geometry/Solids... Volumes and Surface Area/Real World Problems/Non-Overlapping
Rectangular Prisms/The Patio
Measurement & Geometry/Solids... Volumes and Surface Area/Real World Problems/Non-Overlapping
Rectangular Prisms/The Stairs

Frameworks: Volume of Non-Overlapping Rectangular Prisms

Unit 12: Use Operation with Fractions to Solve Word Problems

- 5.NF.01.02** Fractions/Adding Fractions/Word Problems/Alexander's Friend
Fractions/Adding Fractions/Word Problems/Eating Candy
Fractions/Adding Fractions/Word Problems/Goal Scoring
Fractions/Adding Fractions/Word Problems/Taking a Walk
Fractions/Adding Fractions/Word Problems/Pedro and Alex's Race
Fractions/Subtracting Fractions/Word Problems/Washing the Cars
Fractions/Subtracting Fractions/Word Problems/Planting a Garden

**Frameworks: Add Fractions – Word Problems with Unlike Denominators
Subtracting Fractions – Word Problems**

- 5.NF.02.04a** Fractions/Multiplying Fractions/Real World Problems/Word Problems with Pictures/Boris' Money
Fractions/Multiplying Fractions/Real World Problems/Word Problems with Pictures/Maria's Trip

Frameworks: Multiply Fractions – Word Problems

- 5.NF.02.07a** Fractions/Dividing Fractions/Understanding Division/Introduction
Fractions/Dividing Fractions/Real World Problems with Diagrams/The Pie - Divide a Proper Fraction by a

- 5.NF.02.07b** Whole Number

- 5.NF.02.07c** Fractions/Dividing Fractions/Real World Problems with Diagrams/Piece of Wood - Divide a Whole Number
by a Proper Fraction

Fractions/Dividing Fractions/Real World Problems with Number Lines/Servings of Yogurt - Whole
Number/Unit Fraction

Fractions/Dividing Fractions/Real World Problems with Number Lines/Sharing Fudge - Unit Fraction/
Whole Number

Fractions/Dividing Fractions/Understanding Division/Introduction

Fractions/Dividing Fractions/Examples Without Diagrams/Central High School

Fractions/Dividing Fractions/Examples Without Diagrams/The Cheeseburger

Fractions/Dividing Fractions/Examples Without Diagrams/Chicken Noodle Soup

Frameworks: Dividing Fractions – Understanding Division

Dividing Fractions – Examples with Diagrams & Patterns

Dividing Fractions_Unit Fraction by Wh No with No Lines

Dividing Fractions_Wh No by Unit Fraction with No Lines