

Maths - USA **COMMON CORE - GRADE 5**

Number of Classes: VARIABLE

Age Range: 9 - 10 YEARS

Experience Level: **ELEMENTARY**

· Write and interpret numerical expressions. · Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these

- symbols.
- Write simple expressions that record calculations with numbers. Analyze patterns and relationships. · Generate two numerical patterns using two given
 - rules. Identify apparent relationships between corresponding terms.

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the place to its right and 1/10 of what it represents in the place to its left.

Number and Operations in Base Ten

- when multiplying a number by powers of 10, and explain patterns in the placement of the decimal
 - point. · Read, write, and compare decimals to thousandths. Read and write decimals to thousandths using base-ten numerals, number names, and expanded form.
 - · Compare two decimals to thousandths based on meanings of the digits in each place, using >, =, and < symbols. Use place value understanding to round decimals to any place.
 - up to four-digit dividends and two-digit divisors. · Add, subtract, multiply, and divide decimals to hundredths

· Find whole-number quotients of whole numbers with

Fluently multiply multi-digit whole numbers.

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· Apply and extend previous understandings of multiplication and division to multiply and divide fractions.

· Solve word problems involving addition and

including cases of unlike denominators.

multiplication to multiply a fraction or whole number by a fraction.. Interpret the product (a/b) × q as a parts of a

appropriate unit fraction side lengths, and show

· Add and subtract fractions with unlike denominators

subtraction of fractions referring to the same whole,

Interpret a fraction as division of the numerator by the

- that the area is the same as would be found by multiplying the side lengths.. · Interpret multiplication as scaling (resizing), by:
 - fraction greater than 1 results in a product greater than the given number

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· Solve real world problems involving multiplication of

 Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole

 Interpret division of a unit fraction by a non-zero whole number, and compute such quotients. · Interpret division of a whole number by a unit

fraction, and compute such quotients. Solve real world problems involving division of unit fractions by non-zero whole numbers and division

Number and Operations -

fractions and mixed numbers.

numbers by unit fractions.

Fractions (Contd.)

measurement system.

addition.

· Represent and interpret data. Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Geometric measurement: understand concepts of volume and relate volume to multiplication and to

· Recognize volume as an attribute of solid figures

conversions in solving multi-step, real world problems.

measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these

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Measurement and Data (Contd.)

used to measure volume.

problems involving volume.

rectangular prisms

overlapping parts.

n cubic units.

the base.

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· A cube with side length 1 unit, called a "unit cube," is

said to have "one cubic unit" of volume, and can be

· A solid figure which can be packed without gaps or

Measure volumes by counting unit cubes, using cubic

· Relate volume to the operations of multiplication and

• 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

equivalently by multiplying the height by the area of

addition and solve real world and mathematical

be found by multiplying the edge lengths,

Apply the formulas V = I × w × h and V = b × h for

rectangular prisms to find volumes of right

cm, cubic in, cubic ft, and improvised units.

overlaps using n unit cubes is said to have a volume of

- · Recognize volume as additive. Find volumes of solid figures composed of two non-overlapping right rectangular prisms by adding the volumes of the non-
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plane, and interpret coordinate values of points in the context of the situation.

using an ordered pair of numbers, called its

- two-dimensional figures also belong to all subcategories of that category. · Classify two-dimensional figures in a hierarchy based on properties.

- Operations and Algebraic Thinking
 - · Understand the place value system. · Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in · Explain patterns in the number of zeros of the product

with decimals to hundredths.

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fractions.

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- - · Perform operations with multi-digit whole numbers and
 - Number and Operations Fractions Use equivalent fractions as a strategy to add and subtract

(including mixed numbers).

- denominator (a/b = a \div b). Solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers. Apply and extend previous understandings of
 - partition of q into b equal part. • Find the area of a rectangle with fractional side lengths by tiling it with unit squares of the
 - · Comparing the size of a product to the size of one factor on the basis of the size of the other factor. · Explaining why multiplying a given number by a
- of whole numbers by unit fractions, e.g., by using visual fraction models and equations to represent the problem. 04 Measurement and Data

Convert like measurement units within a given

Convert among different-sized standard

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- - Geometry

· Graph points on the coordinate plane to solve real-world

· Use a pair of perpendicular number lines, called axes,

to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by

and mathematical problems.

coordinates.

 Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate · Classify two-dimensional figures into categories based on their properties.

Understand that attributes belonging to a category of

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