# 5<sup>th</sup> Grade FSA Learn-At-Home Video Map

## Reporting Category Operations, Algebraic Thinking, and Fractions (39% of Test)

| Standard | Video Link |
|---|---|
| ***MAFS.5.OA.1.1*** Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols. | https://www.khanacademy.org/math/cc-fifth-grade-math/imp-algebraic-thinking/imp-writing-expressions/v/evaluating-an-expression-with-and-without-parentheses |
| ***MAFS.5.OA.1.2*** Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them. | https://www.khanacademy.org/math/cc-fifth-grade-math/imp-algebraic-thinking/imp-writing-expressions/v/constructing-numerical-expressions-example |
| ***MAFS.5.OA.2.3*** Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs on a coordinate plane. | https://egvideos.educationgalaxy.com/video/florida/grade-5/math/mafs.5.oa.2.3/numerical-patterns |
| ***MAFS.5.NF.1.1*** Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators. F | https://www.khanacademy.org/math/cc-fifth-grade-math/imp-fractions-3/imp-adding-and-subtracting-fractions-with-unlike-denominators/v/adding-fractions-with-unlike-denominators-introduction |
| ***MAFS.5.NF.1.1*** Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators. | https://www.khanacademy.org/math/cc-fifth-grade-math/imp-fractions-3/imp-adding-and-subtracting-fractions-with-unlike-denominators-word-problems/v/adding-fractions-with-unlike-denominators-word-problem |
| ***MAFS.5.NF.2.3*** Interpret a fraction as division of the numerator by the 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, e.g., by using visual fraction models or equations to represent the problem | https://www.khanacademy.org/math/cc-fifth-grade-math/divide-fractions/imp-fractions-as-division/v/fractions-as-division |
| ***MAFS.5.NF.2.4*** Apply and extend previous understandings of multiplication to multiply a fraction or | https://www.khanacademy.org/math/cc-fifth-grade-math/5th-multiply-fractions/imp-multiplying-fractions-and-whole-numbers/v/multiplying-fractions-and-whole-numbers |

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| whole number by a fraction. (Also Assesses MAFS.5.NF.2.6) | https://www.khanacademy.org/math/cc-fifth-grade-math/5th-multiply-fractions/imp-multiplying-fractions/v/visualizing-fraction-products |
| **_MAFS.5.NF.2.5_** Interpret multiplication as scaling | https://www.khanacademy.org/math/cc-fifth-grade-math/5th-multiply-fractions/imp-multiplication-as-scaling/v/multiplication-as-scaling |
| **_MAFS.5.NF.2.7_** Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions. | https://www.khanacademy.org/math/cc-fifth-grade-math/divide-fractions/imp-dividing-whole-numbers-by-unit-fractions/v/visually-dividing-whole-numbers-by-unit-fractions |

## *Numbers and Operations in Base Ten (28% of Test)*

| Standard | Video Link |
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| ***MAFS.5.NBT.1.1*** Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left. | https://www.khanacademy.org/math/cc-fifth-grade-math/powers-of-ten/imp-comparing-decimal-place-values/v/comparing-place-values-in-decimals |
| **MAFS.5.NBT.1.2** Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10. | https://www.khanacademy.org/math/cc-fifth-grade-math/powers-of-ten/imp-multiplying-and-dividing-whole-numbers-by-10-100-and-1000/v/multiplying-and-dividing-by-10-100-1000 |
| ***MAFS.5.NBT.1.3*** Read, write, and compare decimals to thousandths. | https://www.khanacademy.org/math/cc-fifth-grade-math/imp-place-value-and-decimals/imp-decimal-place-value-intro/v/place-value-with-decimals https://www.khanacademy.org/math/cc-fifth-grade-math/imp-place-value-and-decimals/imp-decimals-in-written-form/v/decimal-place-value-2 |
| ***MAFS.5.NBT.1.4*** Use place value understanding to round decimals to any place. | https://www.khanacademy.org/math/cc-fifth-grade-math/imp-place-value-and-decimals/imp-rounding-decimals/v/rounding-decimals-on-the-number-line |
| ***MAFS.5.NBT.2.5*** Fluently multiply multi-digit whole numbers using the standard algorithm. | https://www.khanacademy.org/math/cc-fifth-grade-math/multi-digit-multiplication-and-division/imp-multi-digit-multiplication/v/understanding-the-standard-algorithm-for-multiplication |
| ***MAFS.5.NBT.2.6*** Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models. | https://www.khanacademy.org/math/cc-fifth-grade-math/multi-digit-multiplication-and-division/multi-digit-division-estimation/v/strategies-for-dividing-multiples-of-10-100-and-1000 |
| ***MAFS.5.NBT.2.7*** Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used. | https://www.khanacademy.org/math/cc-fifth-grade-math/imp-addition-and-subtraction-3/xe33ac28b798af866:adding-decimals-hundredths/v/adding-decimals-with-ones-tenths-and-hundredths https://www.khanacademy.org/math/cc-fifth-grade-math/imp-multiplication-and-division-3/multiplying-decimals-strategies/v/developing-strategies-for-multiplying-decimals |

## _Measurement, Data, and Geometry (33% of Test)_

| Standard | Video Link |
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| **_MAFS.5.MD.1.1_** Convert among different-sized standard measurement units (i.e., km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec) within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real-world problems. | https://www.khanacademy.org/math/cc-fifth-grade-math/imp-measurement-and-data-3/imp-unit-measurement-word-problems/v/unit-conversion-with-fractions <br><br> https://www.khanacademy.org/math/cc-fifth-grade-math/imp-measurement-and-data-3/imp-unit-conversion/v/ordering-metric-distances |
| **_MAFS.5.MD.2.2_** Make a line plot to display a data set of measurements in fractions of a unit | https://egvideos.com/video/florida/grade-5/math/mafs.5.md.2.2/line-plots |
| **_MAFS.5.MD.3.3_** Recognize volume as an attribute of solid figures and understand concepts of volume measurement. (Also Assesses MAFS.5.MD.3.4) | https://egvideos.com/video/florida/5/math/mafs.5.md.3.3-mafs.5.md.3.5/volume |
| **_MAFS.5.MD.3.5_** Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume. | https://www.khanacademy.org/math/cc-fifth-grade-math/5th-volume/decompose-figures-to-find-volume/v/volume-through-decomposition |
| **_MAFS.5.G.1.1_** 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 using an ordered pair of numbers, called its coordinates. (Also Assesses MAFS.5.G.1.2) | https://www.khanacademy.org/math/cc-fifth-grade-math/imp-geometry-3/imp-intro-to-the-coordinate-plane/v/introduction-to-the-coordinate-plane |
| **_MAFS.5.G.2.3_** Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category. (Also Assesses MAFS.5.G.2.4) | https://www.khanacademy.org/math/cc-fifth-grade-math/properties-of-shapes/imp-quadrilaterals-2/v/quadrilateral-overview |