## 4th Grade FSA Learn-At-Home Video Map

Standard	<u>Video Link</u>
MAFS.4.0A.1.1 Interpret a	https://www.khanacademy.org/math/cc-fourth-grade-
multiplication equation as a	math/imp-multiplication-and-division-2/imp-comparing-with-
comparison, e.g., interpret $35 = 5 \times 7$ as	multiplication/v/compare-with-multiplication-examples
a statement that 35 is 5 times as many	manipleation, y compare with manipleation examples
as 7 and 7 times as many as 5.	
Represent verbal statements of	
multiplicative comparisons as	
multiplication equations.	
MAFS.4.OA.1.2 Multiply or divide to	https://www.khanacademy.org/math/cc-fourth-grade-
solve word problems involving	math/division/mult-division-word-problems/v/multi-step-
multiplicative comparison, e.g., by	word-problems-with-whole-numbers-exercise-1
using drawings and equations with a	
symbol for the unknown number to	https://www.khanacademy.org/math/cc-fourth-grade-
represent the problem, distinguishing	math/division/mult-division-word-problems/v/multi-step-
multiplicative comparison from additive	word-problems-with-whole-numbers-exercise-t2
comparison.	
MAFS.4.OA.1.3 Solve multistep word	https://www.khanacademy.org/math/cc-fourth-grade-
problems posed with whole numbers	math/division/multi-step-word-problems/v/2-step-estimation-
and having whole-number answers	<u>example</u>
using the four operations, including	
problems in which remainders must be	
interpreted. Represent these problems	
using equations with a letter standing	
for the unknown quantity. MAFS.4.OA.1b Determine the unknown	
whole number in an equation relating	
four whole numbers using comparative	
relational thinking.	
MAFS.4.OA.2.4 Investigate factors and	https://www.khanacademy.org/math/cc-fourth-grade-
multiples.	math/imp-factors-multiples-and-patterns/imp-factors-and-
	multiples/v/understanding-factor-pairs
	https://www.khanacademy.org/math/cc-fourth-grade-
	math/imp-factors-multiples-and-patterns/imp-prime-and-
	composite-numbers/v/recognizing-prime-numbers
MAFS.4.OA.3.5 Generate a number or	https://www.khanacademy.org/math/cc-fourth-grade-
shape pattern that follows a given rule.	math/imp-factors-multiples-and-patterns/imp-math-
Identify apparent features of the	patterns/v/figuring-out-days-of-the-week
pattern that were not explicit in the rule itself.	
rule itself.	

## Reporting Category: Operations and Algebraic Thinking (21% of Test)

## Reporting Category: Numbers and Operations in Base Ten (21% of Test)

<u>Standard</u>	<u>Video Link</u>
MAFS.4.NBT.1.1 Recognize that in a	https://www.khanacademy.org/math/cc-fourth-grade-
multi-digit whole number, a digit in one	math/imp-place-value-and-rounding-2/imp-how-10-relates-to-
place represents ten times what it	place-value/v/place-value-when-multiplying-and-dividing-by-10
represents in the place to its right.	
MAFS.4.NBT.1.2 Read and write multi-	https://www.khanacademy.org/math/cc-fourth-grade-
digit whole numbers using base-ten	math/imp-place-value-and-rounding-2/imp-intro-to-place-
numerals, number names, and	value/v/place-value-1
expanded form. Compare two multi-	
digit numbers based on meanings of	https://www.khanacademy.org/math/cc-fourth-grade-
the digits in each place, using >, =, and	math/imp-place-value-and-rounding-2/imp-comparing-multi-
< symbols to record the results of	digit-numbers/v/comparing-multi-digit-numbers
comparisons.	
MAFS.4.NBT.1.3 Use place value	https://www.khanacademy.org/math/cc-fourth-grade-
understanding to round multi-digit	math/imp-addition-and-subtraction-2/imp-rounding-whole-
whole numbers to any place.	<u>numbers/v/rounding-whole-numbers-1</u>
MAFS.4.NBT.2.4 Fluently add and	https://www.khanacademy.org/math/cc-fourth-grade-
subtract multi-digit whole numbers	math/imp-addition-and-subtraction-2/imp-subtracting-multi-
using the standard algorithm.	digit-numbers/v/understanding-place-value-when-subtracting
	https://www.khanacademy.org/math/cc-fourth-grade-
	math/imp-addition-and-subtraction-2/imp-adding-multi-digit-
	numbers/v/adding-multi-digit-numbers-with-place-value
MAFS.4.NBT.2.5 Multiply a whole	https://www.khanacademy.org/math/cc-fourth-grade-
number of up to four digits by a one-	math/imp-multiplication-and-division-2/imp-multi-digit-
digit whole number, and multiply two	multiplication-place-value-and-area-models/v/more-ways-to-
two-digit numbers, using strategies	think-about-multiplying
based on place value and the	
properties of operations. Illustrate and	
explain the calculation by using	
equations, rectangular arrays, and/or	
area models.	
MAFS.4.NBT.2.6 Find whole-number	https://www.khanacademy.org/math/cc-fourth-grade-
quotients and remainders with up to	math/division/division-place-value-and-area/v/division-using-
four digit dividends and one-digit	understanding-of-place-value
divisors, using strategies based on	https://www.lbopoodomy.org/weth/opfo.wth.grade
place value, the properties of	https://www.khanacademy.org/math/cc-fourth-grade-
operations, and/or the relationship	math/division/division-with-area-models/v/area-models-to-
between multiplication and division.	visualize-division-using-place-value
Illustrate and explain the calculation by	
using equations, rectangular arrays,	
and/or area models.	

<u>Standard</u>	<u>Video Link</u>
MAFS.4.NF.1.1 Explain why a fraction	https://www.khanacademy.org/math/cc-fourth-grade-
a/b is equivalent to a fraction	math/comparing-fractions-and-equivalent-fractions/imp-
$(n \times a)/(n \times b)$ by using visual fraction	equivalent-fractions-2/v/equivalent-amount-of-pizza
models, with attention to how the	
number and size of the parts differ	
even though the two fractions	
themselves are the same size. Use this	
principle to recognize and generate	
equivalent fractions.	
MAFS.4.NF.1.2 Compare two fractions	https://www.khanacademy.org/math/cc-fourth-grade-
with different numerators and	math/comparing-fractions-and-equivalent-fractions/imp-
different denominators, e.g., by	comparing-fractions-with-unlike-denominators/v/comparing-
creating common denominators or	fractions-with-different-denominators
numerators, or by comparing to a	
benchmark fraction.	
MAFS.4.NF.2.3 Understand a fraction	https://www.khanacademy.org/math/cc-fourth-grade-math/imp-
a/b with a > 1 as a sum of fractions	fractions-2/imp-decomposing-fractions/v/decomposing-a-
1/b.	<u>fraction-visually</u>
MAFS.4.NF.2.3a Understand addition	https://www.khanacademy.org/math/cc-fourth-grade-math/imp-
and subtraction of fractions as joining	fractions-2/imp-adding-and-subtracting-fractions-with-like-
and separating parts referring to the	denominators/v/adding-fractions-with-like-denominators
same whole	
MAFS.4.NF.2.4 Apply and extend	https://www.khanacademy.org/math/cc-fourth-grade-math/4th-
previous understandings of	multiply-fractions/multiplying-whole-numbers-and-
multiplication to multiply a fraction by	fractions/v/fraction-whole-multiplication-concept
a whole number.	
MAFS.4.NF.3.5 Express a fraction with	https://www.khanacademy.org/math/cc-fourth-grade-math/imp-
denominator 10 as an equivalent	fractions-2/imp-fractions-with-denominators-of-10-and-
fraction with denominator 100, and	<u>100/v/visually-converting-from-tenths-to-hundredths</u>
use this technique to add two fractions	
with respective denominators 10 and	
100.	
MAFS.4.NF.3.6 Use decimal notation	https://www.khanacademy.org/math/cc-seventh-grade-math/cc-
for fractions with denominators 10 or	7th-fractions-decimals/cc-7th-fracs-to-decimals/v/decimals-and-
100.	<u>fractions</u>
MAFS.4.NF.3.7 Compare two decimals	https://www.khanacademy.org/math/cc-fourth-grade-math/imp-
to hundredths by reasoning about their	decimals/imp-comparing-decimals/v/comparing-decimals-with-
size. Recognize that comparisons are	<u>hundredths</u>
valid only when the two decimals refer	
to the same whole. Record the results	
of comparisons with the symbols >, =,	
or	

<u>Standard</u>	<u>Video Link</u>
MAFS.4.MD.1.1 Know relative sizes of	https://www.khanacademy.org/math/cc-fourth-grade-math/imp-
measurement units within one system	measurement-and-data-2/imp-converting-units-of-
of units including km, m, cm; kg, g; lb,	volume/v/liters-to-milliliters-examples
oz.; l, ml; hr, min, sec. Within a single	
system of measurement, express	https://www.khanacademy.org/math/cc-fourth-grade-math/imp-
measurements in a larger unit in terms	measurement-and-data-2/imp-converting-units-of-
of a smaller unit. Record measurement	volume/v/converting-us-fluid-volume
equivalents in a two-column table.	
MAFS.4.MD.1.2 Use the four	https://www.khanacademy.org/math/cc-fourth-grade-math/imp-
operations to solve word problems	measurement-and-data-2/imp-money-word-problems/v/change-
involving distances, intervals of time,	from-buying-apples
and money, including problems	
involving simple fractions or decimals.	https://www.khanacademy.org/math/cc-fourth-grade-math/imp-
Represent fractional quantities of	measurement-and-data-2/imp-converting-units-of-time/v/time-
distance and intervals of time using	<u>unit-conversion</u>
linear models	
	https://www.khanacademy.org/math/cc-fourth-grade-math/imp-
	measurement-and-data-2/imp-conversion-word-
	problems/v/metric-system-unit-conversion-examples
MAFS.4.MD.1.3 Apply the area and	https://www.khanacademy.org/math/cc-fourth-grade-
perimeter formulas for rectangles in	math/area-perimeter/imp-area-and-perimeter/v/width-from-
real world and mathematical problems.	<u>perimeter</u>
MAFS.4.MD.2.4 Make a line plot to	https://www.khanacademy.org/math/cc-fourth-grade-math/imp-
display a data set of measurements in	fractions-2/imp-line-plots-with-fractions/v/making-line-plots-
fractions of a unit 1/2 , 1/4 , 1/8. Solve	with-fractional-data
problems involving addition and	
subtraction of fractions by using	
information presented in line plots.	
MAFS.4.MD.3.5 Recognize angles as	https://www.khanacademy.org/math/cc-fourth-grade-
geometric shapes that are formed	math/plane-figures/imp-angle-introduction/v/angle-basics
wherever two rays share a common	
endpoint, and understand concepts of	https://www.khanacademy.org/math/cc-fourth-grade-math/imp-
angle measurement.	geometry-2/imp-angles-in-circles/v/angle-measurement-and-
	<u>circle-arcs</u>
MAFS.4.MD.3.7 Recognize angle	https://www.khanacademy.org/math/cc-fourth-grade-math/imp-
measure as additive. When an angle is	geometry-2/imp-decomposing-angles/v/decomposing-angles
decomposed into non-overlapping	
parts, the angle measure of the whole	
is the sum of the angle measures of the	

parts.

## Reporting Category: Measurement, Data, and Geometry (33% of Test)

MAFS.4.G.1.1 Draw points, lines, line	https://www.khanacademy.org/math/cc-fourth-grade-
segments, rays, angles (right, acute,	math/plane-figures/imp-lines-line-segments-and-rays/v/lines-
obtuse), and perpendicular and parallel	line-segments-and-rays
lines. Identify these in two-dimensional	
figures.	
MAFS.4.G.1.2 Classify two-dimensional	https://www.khanacademy.org/math/cc-fourth-grade-
figures based on the presence or	math/plane-figures/imp-classifying-geometric-
absence of parallel or perpendicular	shapes/v/classifying-shapes-examples
lines, or the presence or absence of	
angles of a specified size. Recognize	
right triangles as a category, and	
identify right triangles.	
MAFS.4.G.1.3 Recognize a line of	https://www.khanacademy.org/math/cc-fourth-grade-
symmetry for a two-dimensional figure	math/plane-figures/imp-line-of-symmetry/v/identifying-
as a line across the figure such that the	<u>symmetrical-figures</u>
figure can be folded along the line into	
matching parts. Identify line-symmetric	
figures and draw lines of symmetry.	