GRADE 5

SUMMER MATH SKILLS PLAN

Florida B.E.S.T. Standards for Math are broken down into three larger categories, with multiple standards for each category. Use this checklist to work on skills associated with each standard on IXL.com. Students can log in using their N# and SLApin. Each skill listed below is a link to the skill on IXL.

For each skill, work until to a SmartScore of at least 80 and record the final score on the checklist below. Each completed category will earn a casual day at the beginning of next school year!

NUMBER SENSE AND OPERATIONS

STANDARD	IXL SKILL NUMBER, NAME, SEARCH CODE	SCORE
MA.5.NSO.1.1 Express how the value of a digit in a multi-digit number with decimals to the thousandths changes if the digit moves one or more places to the left or right.	**W.4:** Place values in decimal numbers X8U	
MA.5.NSO.1.2 Read and write multi-digit numbers with decimals to the thousandths using standard form, word form and expanded form.	**W.3:** Understanding decimals expressed in words F9GH	
MA.5.NSO.1.3 Compose and decompose multi-digit numbers with decimals to the thousandths in multiple ways using the values of the digits in each place. Demonstrate the compositions or decompositions using objects, drawings and expressions or equations.	**W.8:** Compose and decompose decimals in multiple ways 7U9	
MA.5.NSO.1.4 Plot, order and compare multi-digit numbers with decimals up to the thousandths.	**X.3:** Compare decimals on number lines CUF	
	X.4: Compare decimal numbers NSG	
	X.5: Put decimal numbers in order YUX	
MA.5.NSO.1.5 Round multi-digit numbers with decimals to the thousandths to the nearest hundredth, tenth or whole number.	**W.9:** Round decimals MPB	
MA.5.NSO.2.1 Multiply multi-digit whole numbers including using a standard algorithm with procedural fluency.	**D.10:** Multiply 2-digit numbers by 2-digit numbers LLJ	
	D.13: Multiply by 2-digit numbers: word problems J95	
MA.5.NSO.2.2 Divide multi-digit whole numbers, up to five digits by two digits, including using a standard algorithm with procedural fluency. Represent remainders as fractions.	**E.11:** Divide 2-digit and 3-digit numbers by 2-digit numbers HMA	

NUMBER SENSE AND OPERATIONS

STANDARD	IXL SKILL NUMBER, NAME, SEARCH CODE	SCORE
MA.5.NSO.2.3 Add and subtract multi-digit numbers with decimals to the thousandths, including using a standard algorithm with procedural fluency.	**AA.2:** Add decimal numbers BDX	
	AA.4: Subtract decimal numbers SC8	
	AA.6: Add and subtract decimals: word problems 35U	
MA.5.NSO.2.4 Explore the multiplication and division of multi-digit numbers with decimals to the hundredths using estimation, rounding and place value.	**BB.1:** Multiply a decimal by a power of ten DN2	
	CC.4: Multiply a decimal by a one-digit whole number XNY	
	FF.4: Division with decimal quotients J9Z	
MA.5.NSO.2.5 Multiply and divide a multi-digit number with decimals to the tenths by one-tenth and one-hundredth with procedural reliability.	**BB.3:** Multiply by 0.1 and 0.01 85W	

FRACTIONS

STANDARD	IXL SKILL NUMBER, NAME, SEARCH CODE	SCORE
MA.5.FR.1.1 Given a mathematical or real-world problem, represent the division of two whole numbers as a fraction.	**T.2:** Understand fractions as division: word problems CTD	
MA.5.FR.2.1 Add and subtract fractions with unlike denominators, including mixed numbers and fractions greater than 1, with procedural reliability.	**J.5:** Least common denominator R7P	
	L.3: Add fractions with unlike denominators D9N	
	L.5: Subtract fractions with unlike denominators VSP	
	M.3: Add mixed numbers with unlike denominators FHD	
	M.4: Subtract mixed numbers with unlike denominators FAA	
MA.5.FR.2.2 Extend previous understanding of multiplication to multiply a fraction by a fraction, including mixed numbers and fractions greater than 1, with procedural reliability.	**P.1:** Multiply two fractions 8KV	
	R.3: Multiply a mixed number by a fraction G7W	
MA.5.FR.2.3 When multiplying a given number by a fraction less than 1 or a fraction greater than 1, predict and explain the relative size of the product to the given number without calculating.	**S.1:** Scaling whole numbers by fractions: justify your answer Q7M	
MA.5.FR.2.4 Extend previous understanding of division to explore the division of a unit fraction by a whole number and a whole number by a unit fraction.	**U.2:** Divide whole numbers by unit fractions 3L9	
	U.3: Divide unit fractions and whole numbers SPB	

ALGEBRAIC REASONING

STANDARD	IXL SKILL NUMBER, NAME, SEARCH CODE	SCORE
MA.5.AR.1.1 Solve multi-step real-world problems involving any combination of the four operations with whole numbers, including problems in which remainders must be interpreted within the context.	**I.2:** Multi-step word problems Z76	
MA.5.AR.1.2 Solve real-world problems involving the addition, subtraction or multiplication of fractions, including mixed numbers and fractions greater than 1.	**L.6:** Add and subtract fractions with unlike denominators: word problems TCD	
	P.2: Multiply two fractions: word problems 38Y	
	R.7: Multiplication with mixed numbers: word problems 5W6	
	R.8: Multiply fractions and mixed numbers in recipes QHN	
MA.5.AR.1.3 Solve real-world problems involving division of a unit fraction by a whole number and a whole number by a unit fraction.	**U.4:** Divide unit fractions and whole numbers: word problems G2N	
MA.5.AR.2.1 Translate written real-world and mathematical descriptions into numerical expressions and numerical expressions into written mathematical descriptions.	**H.2:** Write numerical expressions: two operations 8ME	
	I.1: Write numerical expressions for word problems NF5	
MA.5.AR.2.2 Evaluate multi-step numerical expressions using order of operations.	**H.4:** Evaluate numerical expressions with parentheses HGW	
	H.7: Evaluate numerical expressions with parentheses in different places PF5	
MA.5.AR.2.3 Determine and explain whether an equation involving any of the four operations is true or false.	**H.6:** Identify mistakes involving the order of operations JLJ	
	GG.3: Equations with mixed operations: true or false QR9	
MA.5.AR.2.4 Given a mathematical or real-world context, write an equation involving any of the four operations to determine the unknown whole number with the unknown in any position.	**MM.4:** Write variable equations: word problems TVB	
MA.5.AR.3.1 Given a numerical pattern, identify and write a rule that can describe the pattern as an expression.	**LL.5:** Use a rule to complete a table and a graph N9B	
MA.5.AR.3.2 Given a rule for a numerical pattern, use a two-column table to record the inputs and outputs.	**MM.6:** Complete a table for a two-variable relationship NEK	

GEOMETRIC REASONING, DATA ANALYSIS, AND PROBABILITY

STANDARD	IXL SKILL NUMBER, NAME, SEARCH CODE	SCORE
MA.5.M.1.1 Solve multi-step real-world problems that involve converting measurement units to equivalent measurements within a single system of measurement.	**II.4:** Compare and convert customary units 8DZ	
	II.5: Conversion tables - customary units 7HU	
	JJ.4: Compare and convert metrict units PJL	
	JJ.10: Multi-step problems with customary or metric unit conversions ST6	
MA.5.M.2.1 Solve multi-step real-world problems involving money using decimal notation.	**HH.3:** Add and subtract money: multi-step word problems MCG	
MA.5.DP.1.1 Collect and represent numerical data, including fractional and decimal values, using tables, line graphs or line plots.	**NN.3:** Create and interpret line plots with fractions XBS	
	NN.5: Create line graphs KFZ	
MA.5.DP.1.2 Interpret numerical data, with whole-number values, represented with tables or line plots by determining the mean, mode, median or range.	Find the mean, median, mode, or range from a list of whole numbers ZRX (no lesson #)	
	Find the mean, median, mode, or range from a table or line plot UTB (no lesson #)	
MA.5.GR.1.1 Classify triangles or quadrilaterals into different categories based on shared defining attributes. Explain why a triangle or quadrilateral would or would not belong to a category.	**QQ.6:** Classify quadrilaterals 6ZQ	
MA.5.GR.2.1 Find the perimeter and area of a rectangle with fractional or decimal side lengths using visual models and formulas.	**SS.3:** Perimeter with fractional side lengths WQU	
	P.7: Multiply fractions to find area SEZ	
MA.5.GR.3.2 Find the volume of a right rectangular prism with whole-number side lengths using a visual model and a formula.	**UU.4:** Volume of cubes and rectangular prisms TFL	
MA.5.GR.3.3 Solve real-world problems involving the volume of right rectangular prisms.	**UU.5:** Volume of cubes and rectangular prisms: word problems NR6	
MA.5.GR.4.1 Identify the origin and axes in the coordinate system. Plot and label ordered pairs in the first quadrant of the coordinate plane.	**LL.1:** Describe the coordinate plane PF8	
	LL.2: Objects on the coordinate plane NTR	
	LL.3: Graph points on the coordinate plane AST	
MA.5.GR.4.2 Represent mathematical and real-world problems by plotting points and interpret coordinate values.	**LL.4:** Graph points from a table HWV	