



IXL Skill Alignment

3rd alignment for EngageNY Common Core Curriculum

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Module 1

Properties of Multiplication and Division and Solving Problems with Units of 2-5 and 10

Textbook section	IXL skills
Topic A: Multiplication and the Meaning of the Factors	E.1 Count equal groups >>
	E.2 Identify multiplication expressions for equal groups >>
	E.3 Write multiplication sentences for equal groups >>
	E.4 Relate addition and multiplication for equal groups >>
	E.5 Identify multiplication expressions for arrays >>
	E.6 Write multiplication sentences for arrays >>
	E.7 Make arrays to model multiplication >>
	N.9 Relate addition and multiplication >>
Topic B: Division as an Unknown Factor Problem	I.1 Divide by counting equal groups >>
	I.2 Write division sentences for groups >>
	I.3 Relate multiplication and division for groups >>
	I.4 Write division sentences for arrays >>
	I.5 Relate multiplication and division for arrays >>
Topic C: Multiplication Using Units of 2 and 3	A.3 Skip-counting >>
	F.3 Multiply by 2 >>
	F.4 Multiply by 3 >>
Topic D: Division Using Units of 2 and 3	
Topic E: Multiplication and Division Using Units of 4	F.5 Multiply by 4 >>
Topic F: Distributive Property and Problem Solving Using Units of 2-5 and 10	

Module 2

Place Value and Problem Solving with Units of Measure

Textbook section	IXL skills
Topic A: Time Measurement and Problem Solving	
Topic B: Measuring Weight and Liquid Volume in Metric Units	BB.14 Which metric unit of weight is appropriate? >> BB.19 Compare and convert metric units of volume >>
Topic C: Rounding to the Nearest Ten and Hundred	P.1 Rounding - nearest ten or hundred only >>
Topic D: Two- and Three-Digit Measurement Addition Using the Standard Algorithm	C.1 Add two numbers up to three digits >> C.3 Add two numbers up to three digits - word problems >> P.5 Estimate sums up to 1,000 >>
Topic E: Two- and Three-Digit Measurement Subtraction Using the Standard Algorithm	D.1 Subtract numbers up to three digits >> D.3 Subtract numbers up to three digits - word problems >> P.8 Estimate differences up to 1,000 >>

Module 3

Multiplication and Division with Units of 0, 1, 6-9, and Multiples of 10

Textbook section	IXL skills
Topic A: The Properties of Multiplication and Division	G.5 Multiplication tables for 6, 7, 8, and 9 >>
	G.8 Multiplication facts for 6, 7, 8, and 9: find the missing factor >>
	G.12 Multiplication facts up to 10: find the missing factor >>
	K.10 Division facts up to 10: find the missing number >>
	O.3 Solve for the variable: multiplication and division >>
	<i>See also:</i>
	G.6 Multiplication facts for 6, 7, 8, and 9: true or false? >>
Topic B: Multiplication and Division Using Units of 6 and 7	F.7 Multiply by 6 >>
	F.8 Multiply by 7 >>
	J.6 Divide by 6 >>
	J.7 Divide by 7 >>
Topic C: Multiplication and Division Using Units up to 8	F.9 Multiply by 8 >>
	H.6 Multiplication word problems >>
	J.8 Divide by 8 >>
	L.5 Division word problems >>
	N.2 Understanding parentheses >>
Topic D: Multiplication and Division Using Units of 9	F.10 Multiply by 9 >>
	J.9 Divide by 9 >>
Topic E: Analysis of Patterns and Problem Solving Including Units of 0 and 1	F.1 Multiply by 0 >>
	F.2 Multiply by 1 >>
	J.1 Divide by 1 >>
	N.6 Distributive property: find the missing factor >>
Topic F: Multiplication of Single-Digit Factors and Multiples of 10	H.1 Multiply by a multiple of ten >>

Module 4

Multiplication and Area

Textbook section	IXL skills
Topic A: Foundations for Understanding Area	FF.6 Find the area of figures made of unit squares >> FF.9 Create figures with a given area >>
Topic B: Concepts of Area Measurement	FF.10 Find the area of rectangles and squares >>
Topic C: Arithmetic Properties Using Area Models	
Topic D: Applications of Area Using Side Lengths of Figures	FF.9 Create figures with a given area >> FF.10 Find the area of rectangles and squares >> FF.13 Find the area of rectangles: word problems >> FF.15 Find the area between two rectangles >> <i>See also:</i> FF.14 Find the area of complex figures >>

Module 5

Fractions as Numbers on the Number Line

Textbook section	IXL skills	
Topic A: Partition a Whole into Equal Parts	W.1	Identify equal parts >>
Topic B: Unit Fractions and Their Relation to the Whole	W.1	Identify equal parts >>
	W.2	Understand fractions: fraction bars >>
	W.3	Understand fractions: area models >>
	W.4	Show fractions: fraction bars >>
	W.5	Show fractions: area models >>
	W.6	Match fractions to models: halves, thirds, and fourths >>
	W.7	Match unit fractions to models >>
	W.8	Match fractions to models >>
	W.17	Unit fractions: word problems >>
Topic C: Comparing Unit Fractions and Specifying the Whole		
Topic D: Fractions on the Number Line	W.13	Graph unit fractions on number lines >>
	W.14	Graph fractions on number lines >>
	W.15	Graph smaller or larger fractions on a number line >>
	X.7	Graph fractions equivalent to 1 on number lines >>
	Y.2	Compare fractions using number lines >>
	Y.3	Graph and compare fractions with like denominators on number lines >>
	Y.4	Graph and compare fractions with like numerators on number lines >>
	Y.5	Graph and compare fractions on number lines >>
	Y.6	Compare fractions >>
	Y.9	Graph and order fractions on number lines >>

See also:

W.11 Identify unit fractions on number lines >>

X.9 Find fractions equivalent to whole numbers >>

Topic E: Equivalent Fractions

W.11 Identify unit fractions on number lines >>

W.12 Identify fractions on number lines >>

X.2 Identify equivalent fractions on number lines >>

X.3 Find equivalent fractions using number lines >>

X.4 Graph equivalent fractions on number lines >>

X.7 Graph fractions equivalent to 1 on number lines >>

X.8 Select fractions equivalent to whole numbers using area models >>

X.9 Find fractions equivalent to whole numbers >>

Topic F: Comparison, Order, and Size of Fractions

Y.4 Graph and compare fractions with like numerators on number lines >>

Y.11 Order fractions with like numerators >>

Module 6

Collecting and Displaying Data

Textbook section	IXL skills
Topic A: Generate and Analyze Categorical Data	U.4 Interpret tally charts and tables >>
	U.5 Interpret bar graphs >>
	U.7 Create bar graphs >>
	U.8 Interpret line plots >>
	U.11 Interpret pictographs >>
	U.12 Create pictographs >>
Topic B: Generate and Analyze Measurement Data	U.4 Interpret tally charts and tables >>
	U.5 Interpret bar graphs >>
	U.7 Create bar graphs >>
	U.8 Interpret line plots >>
	U.9 Create line plots >>
	U.11 Interpret pictographs >>
	U.12 Create pictographs >>
	BB.3 Measure using an inch ruler >>

Module 7

Geometry and Measurement Word Problems

Textbook section	IXL skills
Topic A: Solving Word Problems	
Topic B: Attributes of Two-Dimensional Figures	CC.2 Count and compare sides and vertices >> DD.8 Classify quadrilaterals >> FF.6 Find the area of figures made of unit squares >> FF.10 Find the area of rectangles and squares >>
Topic C: Problem Solving with Perimeter	FF.1 Perimeter of rectangles >> FF.4 Perimeter: find the missing side length >>
Topic D: Recording Perimeter and Area Data on Line Plots	U.8 Interpret line plots >> U.9 Create line plots >> FF.9 Create figures with a given area >> FF.16 Compare area and perimeter of two figures >>
Topic E: Problem Solving with Perimeter and Area	FF.1 Perimeter of rectangles >> FF.13 Find the area of rectangles: word problems >> FF.15 Find the area between two rectangles >> <i>See also:</i> FF.14 Find the area of complex figures >> FF.18 Relationship between area and perimeter I >>
Topic F: Year in Review	A.3 Skip-counting >> C.1 Add two numbers up to three digits >> D.1 Subtract numbers up to three digits >> E.1 Count equal groups >> E.2 Identify multiplication expressions for equal groups >> E.3 Write multiplication sentences for equal groups >>

- E.4** Relate addition and multiplication for equal groups >>
 - E.5** Identify multiplication expressions for arrays >>
 - E.7** Make arrays to model multiplication >>
 - G.15** Multiplication tables up to 12 >>
 - G.17** Multiplication facts up to 12: find the missing factor >>
 - I.1** Divide by counting equal groups >>
 - I.2** Write division sentences for groups >>
 - I.4** Write division sentences for arrays >>
 - K.7** Division facts up to 10 >>
 - N.2** Understanding parentheses >>
 - N.6** Distributive property: find the missing factor >>
 - P.1** Rounding - nearest ten or hundred only >>
 - U.5** Interpret bar graphs >>
 - U.7** Create bar graphs >>
 - U.8** Interpret line plots >>
 - U.9** Create line plots >>
 - W.4** Show fractions: fraction bars >>
 - W.5** Show fractions: area models >>
 - W.6** Match fractions to models: halves, thirds, and fourths >>
 - W.7** Match unit fractions to models >>
 - W.8** Match fractions to models >>
 - BB.3** Measure using an inch ruler >>
 - DD.8** Classify quadrilaterals >>
 - FF.1** Perimeter of rectangles >>
 - FF.10** Find the area of rectangles and squares >>
 - FF.16** Compare area and perimeter of two figures >>
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