IXL Skill Alignment

4th alignment for EngageNY Common Core Curriculum

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Module 1

Place Value, Rounding, and Algorithms for Addition and Subtraction

Textbook section	IXL skills	
Topic A: Place Value of Multi-Digit Whole Numbers	**A.2**	Convert between standard and expanded form >>
	A.10	Write word names for numbers up to one million >>
Topic B: Comparing Multi-Digit Whole Numbers		
Topic C: Rounding Multi-Digit Whole Numbers	**A.16**	Rounding >>
	B.10	Estimate sums >>
	B.11	Estimate sums: word problems >>
	C.8	Estimate differences >>
	C.9	Estimate differences: word problems >>
	See also:	
	D.15	Estimate products: word problems >>
	F.3	Estimate sums, differences, products, and quotients: word problems >>
Topic D: Multi-Digit Whole Number Addition	**B.2**	Add numbers up to millions >>
	B.4	Add numbers up to millions: word problems >>
	B.7	Add 3 or more numbers up to millions >>
Topic E: Multi-Digit Whole Number Subtraction	**C.2**	Subtract numbers up to millions >>
Topic F: Addition and Subtraction Word Problems		

Module 2

Unit Conversions and Problem Solving with Metric Measurement

Textbook section	IXL skills	
Topic A: Metric Unit Conversions	**N.12**	Compare and convert metric units of length >>
	N.13	Compare and convert metric units of weight >>
	N.14	Compare and convert metric units of volume >>
Topic B: Application of Metric Unit Conversions	**N.15**	Compare and convert metric units >>
	See also:	
	N.11	Which metric unit is appropriate? >>

Module 3

Multi-Digit Multiplication and Division

Textbook section	IXL skills
Topic A: Multiplicative Comparison Word Problems	
Topic B: Multiplication by 10, 100, and 1,000	
Topic C: Multiplication of up to Four Digits by Single-Digit Numbers	**D.6** Multiply 1-digit numbers by 2-digit numbers >> **D.7** Multiply 1-digit numbers by 3-digit or 4-digit numbers >> **D.11** Distributive property: find the missing factor >> *See also:* **D.12** Multiply using the distributive property >>
Topic D: Multiplication Word Problems	
Topic E: Division of Tens and Ones with Successive Remainders	**E.4** Divide 2-digit numbers by 1-digit numbers >> **E.5** Divide 2-digit numbers by 1-digit numbers: word problems >> **E.7** Divide 2-digit numbers by 1-digit numbers: interpret remainders >>
Topic F: Reasoning with Divisibility	**A.14** Prime and composite - up to 20 >> **D.4** Choose the multiples of a given number up to 12 >> **D.5** Identify factors >>
Topic G: Division of Thousands, Hundreds, Tens, and Ones	**E.7** Divide 2-digit numbers by 1-digit numbers: interpret remainders >> **E.8** Divide larger numbers by 1-digit numbers >> **E.9** Divide larger numbers by 1-digit numbers: word problems >> **E.11** Divide larger numbers by 1-digit numbers: interpret remainders >>

Topic H: Multiplication of Two-Digit by Two-Digit Numbers

D.18 Multiply a 2-digit number by a 2-digit number: complete the missing steps >>

D.19 Multiply a 2-digit number by a 2-digit number >>

See also:

D.20 Multiply a 2-digit number by a 2-digit number: word problems >>

Module 4

Angle Measure and Plane Figures

Textbook section	IXL skills	
Topic A: Lines and Angles	**W.4**	Lines, line segments, and rays >>
	W.5	Parallel, perpendicular, and intersecting lines >>
	Z.1	Acute, right, obtuse, and straight angles >>
Topic B: Angle Measurement	**Z.2**	Angles of 90, 180, 270, and 360 degrees >>
	Z.3	Measure angles with a protractor >>
	See also:	
	Z.4	Estimate angle measurements >>
Topic C: Problem Solving with the Addition of Angle Measures	**Z.5**	Adjacent angles >>
Topic D: Two-Dimensional Figures and Symmetry	**X.1**	Acute, obtuse, and right triangles >>
	X.2	Scalene, isosceles, and equilateral triangles >>
	X.9	Classify quadrilaterals >>
	Y.1	Identify lines of symmetry >>

Module 5

Fraction Equivalence, Ordering, and Operations

Textbook section	IXL skills	
Topic A: Decomposition and Fraction Equivalence	**Q.1**	Decompose fractions into unit fractions >>
	Q.2	Decompose fractions >>
	Q.3	Decompose fractions multiple ways >>
Topic B: Fraction Equivalence Using Multiplication and Division	**P.5**	Find equivalent fractions using area models >>
	P.6	Graph equivalent fractions on number lines >>
	See also:	
	P.7	Equivalent fractions >>
Topic C: Fraction Comparison	**P.12**	Graph and compare fractions with like numerators or denominators on number lines >>
	P.13	Compare fractions with like numerators or denominators >>
	P.15	Benchmark fractions >>
	P.16	Compare fractions using benchmarks >>
	P.17	Compare fractions >>
	See also:	
	P.14	Compare fractions using models >>
Topic D: Fraction Addition and Subtraction	**Q.4**	Add fractions with like denominators using number lines >>
	Q.6	Subtract fractions with like denominators using number lines >>
	Q.8	Add and subtract fractions with like denominators using number lines >>
	Q.9	Add and subtract fractions with like denominators >>
	Q.11	Add and subtract fractions with like denominators: word problems >>
	Q.12	Add and subtract fractions with like denominators in recipes >>
	Q.13	Add 3 or more fractions with like denominators >>

	R.2 Add fractions with unlike denominators >>
	See also:
	P.23 Convert between improper fractions and mixed numbers >>
	R.1 Add fractions with unlike denominators using models >>
Topic E: Extending Fraction Equivalence to Fractions Greater Than 1	**J.8** Create and interpret line plots with fractions >>
	P.23 Convert between improper fractions and mixed numbers >>
	S.1 Multiply unit fractions by whole numbers using number lines >>
	S.5 Multiply unit fractions by whole numbers >>
Topic F: Addition and Subtraction of Fractions by Decomposition	**Q.14** Add and subtract mixed numbers with like denominators >>
Topic G: Repeated Addition of Fractions as Multiplication	**S.10** Multiply fractions by whole numbers >>
	S.12 Multiply fractions by whole numbers: word problems >>
	S.13 Multiply fractions and mixed numbers by whole numbers in recipes >>
	See also:
	J.8 Create and interpret line plots with fractions >>
	S.7 Multiply fractions by whole numbers using number lines >>
	S.8 Multiply fractions by whole numbers using models >>
Topic H: Exploring a Fraction Pattern	

Module 6

Decimal Fractions

Textbook section	IXL skills
Topic A: Exploration of Tenths	
Topic B: Tenths and Hundredths	**T.1** What decimal number is illustrated? >> **T.2** Model decimals and fractions >> **T.6** Graph decimals on number lines >> **T.7** Decimal number lines >> **T.8** Graph fractions as decimals on number lines >> **T.12** Convert decimals between standard and expanded form using fractions >> *See also:* **P.8** Fractions with denominators of 10, 100, and 1000 >>
Topic C: Decimal Comparison	**T.14** Compare decimals on number lines >> **T.16** Put decimal numbers in order I >> **T.17** Put decimal numbers in order II >> **T.18** Compare decimals and fractions on number lines >> *See also:* **M.2** Compare money amounts >>
Topic D: Addition with Tenths and Hundredths	**R.5** Add fractions with denominators of 10 and 100 >> **U.10** Solve decimal problems using diagrams >>
Topic E: Money Amounts as Decimal Numbers	**M.4** Add and subtract money amounts >> **M.6** Making change >> **M.7** Price lists with addition and subtraction >> **M.8** Price lists with multiplication >> *See also:* **M.1** Count coins and bills - up to $5 bill >>

Module 7

Exploring Measurement with Multiplication

Textbook section	IXL skills
Topic A: Measurement Conversion Tables	**N.5** Compare and convert customary units of volume >>
	See also:
	N.3 Compare and convert customary units of length >>
	N.6 Compare and convert customary units >>
	N.8 Compare customary units by multiplying >>
	O.1 Convert time units >>
Topic B: Problem Solving with Measurement	**O.2** Add and subtract mixed time units >>
	See also:
	N.8 Compare customary units by multiplying >>
	N.10 Add and subtract mixed customary units >>
Topic C: Investigation of Measurements Expressed as Mixed Numbers	
Topic D: Year in Review	**A.14** Prime and composite - up to 20 >>
	B.2 Add numbers up to millions >>
	C.2 Subtract numbers up to millions >>
	D.6 Multiply 1-digit numbers by 2-digit numbers >>
	D.7 Multiply 1-digit numbers by 3-digit or 4-digit numbers >>
	D.12 Multiply using the distributive property >>
	D.19 Multiply a 2-digit number by a 2-digit number >>
	E.4 Divide 2-digit numbers by 1-digit numbers >>
	E.8 Divide larger numbers by 1-digit numbers >>
	M.1 Count coins and bills - up to $5 bill >>

N.11 Which metric unit is appropriate? >>

N.12 Compare and convert metric units of length >>

N.13 Compare and convert metric units of weight >>

N.14 Compare and convert metric units of volume >>

N.15 Compare and convert metric units >>

P.23 Convert between improper fractions and mixed numbers >>

T.6 Graph decimals on number lines >>

T.8 Graph fractions as decimals on number lines >>

W.5 Parallel, perpendicular, and intersecting lines >>

X.2 Scalene, isosceles, and equilateral triangles >>

X.9 Classify quadrilaterals >>

Y.1 Identify lines of symmetry >>

Z.1 Acute, right, obtuse, and straight angles >>

Z.3 Measure angles with a protractor >>

BB.7 Area of complex figures (with all right angles) >>

BB.8 Area between two rectangles >>