

Grade 3

EnVision® Math Lessons Aligned to IXL Skills

	Skill Code	IXL Skill
Grade Level	3A.1	Place values

Grade 3 EnVision® Math Lessons Aligned to IXL Skills & BrainPOP® Videos

Topic 1: Numeration

Topic - Lesson	IXL Skill Alignment
1-1 Representing Numbers	<p>IXL Skill:</p> <p>2M.1 Place value models - tens and ones 2M.2 Place value models - up to hundreds 2M.3 Place value models - up to thousands 2M.4 Value of underlined digit - tens and ones 2M.5 Value of underlined digit - up to hundreds 2M.6 Value of underlined digit - up to thousands 2M.10 Convert to/from a number - up to hundreds 2M.11 Convert to/from a number - up to thousands 2M.12 Convert between place values - up to thousands 2M.13 Convert from expanded form - up to hundreds 2M.14 Convert from expanded form - up to thousands 2M.15 Identify the digit in the ones, tens, hundreds, or thousands place</p> <p>3B.1 Place value models 3B.2 Place value names 3B.3 Value of a digit 3B.4 Identify the digit with a particular place value 3B.5 Convert to/from a number 3B.6 Convert between place values 3B.7 Convert from expanded form 3B.8 Convert between standard and expanded form 3B.9 Place value word problems</p> <p>4A.1 Place values 4A.2 Convert between place values</p>
1-2 Ways to Name Numbers	<p>IXL Skill:</p> <p>2A.2 Convert between place values 2M.12 Convert between place values - up to thousands</p> <p>3A.1 Write numbers in words</p>

	<p>3B.6 Convert between place values</p>
1-3 Greater Numbers	<p>IXL Skill:</p> <p>2M.11 Convert to/from a number - up to thousands 2M.12 Convert between place values - up to thousands 2M.13 Convert from expanded form - up to hundreds 2M.14 Convert from expanded form - up to thousands</p> <p>3B.5 Convert to/from a number 3B.6 Convert between place values 3B.7 Convert from expanded form 3B.8 Convert between standard and expanded form</p> <p>4A.3 Word names for numbers</p>
1-4 Understanding Number Lines	<p>IXL Skill:</p> <p>2A.4 Number lines - up to 100 2A.11 Number lines - up to 1,000</p>
1-5 Counting on a Number Lines	<p>IXL Skill:</p> <p>2A.4 Number lines - up to 100 2A.11 Number lines - up to 1,000 2A.12 Counting patterns - up to 1,000</p>
1-6 Comparing Numbers	<p>IXL Skill:</p> <p>2B.1 Comparing numbers up to 100 2B.2 Inequalities with addition and subtraction - up to 100 2B.3 Comparing numbers up to 1,000</p> <p>3A.9 Which number is greatest/least? 3A.10 Comparing numbers 3A.11 Comparing - with addition and subtraction 3A.12 Multi-step inequalities</p> <p>4A.8 Inequalities with number lines 4A.9 Compare numbers up to billions</p>

1-7 Ordering Numbers	<p>IXL Skill:</p> <p>2B.4 Put numbers up to 100 in order</p> <p>2B.5 Put numbers up to 1,000 in order</p> <p>3A.8 Put numbers in order</p>
1-8 Problem-Solving: Make an Organized List	<p>IXL Skill:</p> <p>3M.3 Find the order</p> <p>3M.4 Age puzzles</p> <p>3M.5 Guess two numbers based on sum and difference</p> <p>3M.6 Guess two numbers based on sum, difference, product, and quotient</p> <p>4K.1 Guess two numbers based on sum and difference</p> <p>4K.2 Guess two numbers based on sum, difference, product, and quotient</p> <p>4K.3 Find the order</p>

Topic 2: Number Sense: Addition and Subtraction

Topic - Lesson	IXL Skill Alignment
2-1 Addition Meaning and Properties	<p>IXL Skill:</p> <p>3A.7 Number sequences</p> <p>3J.3 Properties of addition</p> <p>3J.4 Solve using properties of addition</p> <p>4B.4 Properties of addition</p>
2-2 Subtraction Meanings	<p>IXL Skill:</p> <p>2F.1 Review - subtract one-digit numbers - up to 10</p> <p>2F.2 Review - ways to subtract - up to 10</p> <p>2F.3 Review - writing subtraction sentences - up to 10</p> <p>2F.4 Subtract a one-digit number from a two-digit number up to 18</p>

	<p>2F.5 Subtraction with pictures 2F.6 Write subtraction sentences to describe pictures - up to 18 2F.8 Subtract zero/all 2F.9 Subtraction word problems - up to 18 2F.10 Complete the subtraction sentence - up to 18 2F.11 Write the subtraction sentence - up to 18</p> <p>3D.1 Subtract numbers up to three digits 3D.7 Subtract numbers with four or more digits</p> <p>4C.1 Subtract numbers up to millions 4C.2 Subtract numbers up to millions: word problems</p>
2-3 Using Mental Math to Add	<p>IXL Skill:</p> <p>4F.8 Mentally add and subtract numbers ending in zeroes</p>
2-4 Using Mental Math to Subtract	<p>IXL Skill:</p> <p>4F.8 Mentally add and subtract numbers ending in zeroes</p>
2-5 Rounding	<p>IXL Skill:</p> <p>2N.2 Round to the nearest ten 2N.3 Round to the nearest ten or hundred 2N.4 Round to the nearest ten, hundred, or thousand</p> <p>3L.1 Rounding 3L.2 Round money amounts 3L.3 Rounding puzzles</p> <p>4A.6 Rounding</p>

<p>2-6 Estimating Sums</p>	<p>IXL Skill:</p> <p>2N.5 Estimate sums</p> <p>3L.5 Estimate sums</p> <p>4B.8 Estimate sums</p> <p>4B.9 Estimate sums: word problems</p>
<p>2-7 Estimating Differences</p>	<p>IXL Skill:</p> <p>4C.6 Estimate differences</p> <p>4C.7 Estimate differences: word problems</p>
<p>2-8 Making Sense of Addition and Subtraction Equations</p>	<p>IXL Skill:</p> <p>2E.12 Balance addition equations - one digit</p> <p>2F.12 Balance subtraction equations - up to 18</p> <p>2L.4 Addition and subtraction - balance equations - up to 20</p> <p>2L.9 Addition and subtraction - balance equations - up to 100</p> <p>3C.5 Balance addition equations - up to three digits</p> <p>3C.13 Balance equations - four or more digits</p> <p>3D.5 Balance subtraction equations - up to three digits</p> <p>3K.2 Solve for the variable - addition and subtraction only</p> <p>4G.1 Write variable expressions</p> <p>4G.2 Write variable expressions: word problems</p> <p>4G.3 Evaluate variable expressions</p> <p>4G.4 Simplify expressions using order of operations and parentheses</p> <p>4G.5 Write variable equations to represent word problems</p> <p>4G.6 Solve variable equations</p>
<p>2-9 Problem-Solving: Reasonableness</p>	

Topic 3: Using Place Value to Add and Subtract

Topic - Lesson	IXL Skill Alignment
3-1 Adding with an Expanded Algorithm	<p>IXL Skill:</p> <p>3C.1 Add two numbers up to three digits 3C.3 Add two numbers up to three digits - word problems 3C.9 Add two numbers with four or more digits 3C.11 Add two numbers with four or more digits - word problems</p>
3-2 Models for Adding 3-Digit Numbers	<p>IXL Skill:</p> <p>3C.1 Add two numbers up to three digits 3C.3 Add two numbers up to three digits - word problems 3C.9 Add two numbers with four or more digits 3C.11 Add two numbers with four or more digits - word problems</p>
3-3 Adding 3-Digit Numbers	<p>IXL Skill:</p> <p>3C.1 Add two numbers up to three digits 3C.3 Add two numbers up to three digits - word problems 3C.9 Add two numbers with four or more digits 3C.11 Add two numbers with four or more digits - word problems</p>
3-4 Adding 3 or More Numbers	<p>IXL Skill:</p> <p>2E.13 Add three or more one-digit numbers 2E.14 Add three or more one-digit numbers - word problems</p> <p>3C.6 Add three or more numbers up to three digits each 3C.7 Add three or more numbers up to three digits - word problems 3C.14 Add three or more numbers with four or more digits 3C.15 Add three or more numbers with four or</p>

	<p>more digits - word problems</p> <p>4B.5 Add 3 or more numbers up to millions</p>
<p>3-5 Problem-Solving: Draw a Picture</p>	
<p>3-6 Subtracting with an Expanded Algorithm</p>	<p>IXL Skill:</p> <p>2J.1 Subtract multiples of 100 2J.2 Subtract three-digit numbers 2J.3 Subtraction input/output tables - up to three digits 2J.4 Subtraction word problems - up to three digits 2J.5 Complete the subtraction sentence - up to three digits 2J.6 Write the subtraction sentence - up to three digits</p> <p>3D.1 Subtract numbers up to three digits 3D.3 Subtract numbers up to three digits - word problems 3D.4 Complete the subtraction sentence - up to three digits</p>
<p>3-7 Modeling for 3-Digit Numbers</p>	<p>IXL Skill:</p> <p>2J.1 Subtract multiples of 100 2J.2 Subtract three-digit numbers 2J.3 Subtraction input/output tables - up to three digits 2J.4 Subtraction word problems - up to three digits 2J.5 Complete the subtraction sentence - up to three digits 2J.6 Write the subtraction sentence - up to three digits</p> <p>3D.1 Subtract numbers up to three digits 3D.3 Subtract numbers up to three digits - word problems 3D.4 Complete the subtraction sentence - up to three digits</p>

<p>3-8 Subtracting 3-Digit Numbers</p>	<p>IXL Skill:</p> <p>2J.1 Subtract multiples of 100 2J.2 Subtract three-digit numbers 2J.3 Subtraction input/output tables - up to three digits 2J.4 Subtraction word problems - up to three digits 2J.5 Complete the subtraction sentence - up to three digits 2J.6 Write the subtraction sentence - up to three digits</p> <p>3D.1 Subtract numbers up to three digits 3D.3 Subtract numbers up to three digits - word problems 3D.4 Complete the subtraction sentence - up to three digits</p>
<p>3-9 Subtracting Across Zero</p>	
<p>3-10 Problem-Solving: Draw a Picture and Write a Number Sentence</p>	

Topic 4: Meanings of Multiplication

Topic - Lesson	IXL Skill Alignment
<p>4-1 Multiplication as Repeated Addition</p>	<p>IXL Skill:</p> <p>2W.1 Multiplication sentences 2W.2 Multiplication tables up to 5 2W.3 Multiplication tables up to 10</p> <p>3E.1 Multiplication sentences 3E.2 Multiplication - facts to 12 3J.7 Relate addition and multiplication 3E.3 Multiplication word problems - facts to 12</p> <p>4D.1 Multiplication facts to 12 4D.2 Missing factors - facts to 12</p>

4-2 Arrays and Multiplication	<p>IXL Skill:</p> <p>3F.1 Multiply by 0 3F.2 Multiply by 1 3F.3 Multiply by 2 3F.4 Multiply by 3 3F.5 Multiply by 4 3F.6 Multiply by 5 3F.7 Multiply by 6 3F.8 Multiply by 7 3F.9 Multiply by 8 3F.10 Multiply by 9 3F.11 Multiply by 10 3F.12 Multiply by 11 3F.13 Multiply by 12</p>
4-3 The Commutative Property	<p>IXL Skill:</p> <p>3J.5 Properties of multiplication 4D.7 Properties of multiplication</p>
4-4 Writing Multiplication Stories	<p>IXL Skill:</p> <p>3E.1 Multiplication sentences 3E.2 Multiplication - facts to 12 3E.3 Multiplication word problems - facts to 12</p>
4-5 Problem-Solving: Writing to Explain	

Topic 5: Multiplication Facts: Use Patterns

Topic - Lesson	IXL Skill Alignment
5-1 2 and 5 as Factors	<p>IXL Skill:</p> <p>3E.2 Multiplication - facts to 12 3E.3 Multiplication word problems - facts to 12 3E.4 Missing factors - facts to 12 3E.5 Missing factors - facts to 12 - word problems</p>

	<p>3F.3 Multiply by 2 3F.6 Multiply by 5</p> <p>4D.1 Multiplication facts to 12 4D.2 Missing factors - facts to 12</p>
<p>5-2 9 as a Factor</p>	<p>IXL Skill:</p> <p>3E.2 Multiplication - facts to 12 3E.3 Multiplication word problems - facts to 12 3E.4 Missing factors - facts to 12 3E.5 Missing factors - facts to 12 - word problems 3F.10 Multiply by 9</p> <p>4D.1 Multiplication facts to 12 4D.2 Missing factors - facts to 12</p>
<p>5-3 Multiplying with 0 and 1</p>	<p>IXL Skill:</p> <p>3E.2 Multiplication - facts to 12 3E.3 Multiplication word problems - facts to 12 3E.4 Missing factors - facts to 12 3E.5 Missing factors - facts to 12 - word problems 3F.1 Multiply by 0 3F.2 Multiply by 1</p> <p>4D.1 Multiplication facts to 12 4D.2 Missing factors - facts to 12</p>
<p>5-4 Patterns for Facts</p>	<p>IXL Skill:</p> <p>2A.1 Skip-counting 2A.2 Skip-counting sequences 2A.3 Counting patterns - up to 100 2A.9 Skip-counting stories 2A.10 Skip-counting puzzles</p> <p>3A.6 Skip-counting puzzles</p>

	<p> 3F.1 Multiply by 0 3F.2 Multiply by 1 3F.3 Multiply by 2 3F.4 Multiply by 3 3F.5 Multiply by 4 3F.6 Multiply by 5 3F.7 Multiply by 6 3F.8 Multiply by 7 3F.9 Multiply by 8 3F.10 Multiply by 9 3F.11 Multiply by 10 3F.12 Multiply by 11 3F.13 Multiply by 12 </p>
5-5 10 as a Factor	<p>IXL Skill:</p> <p> 3E.2 Multiplication - facts to 12 3E.3 Multiplication word problems - facts to 12 3E.4 Missing factors - facts to 12 3E.5 Missing factors - facts to 12 - word problems 3F.11 Multiply by 10 </p> <p> 4D.1 Multiplication facts to 12 4D.2 Missing factors - facts to 12 </p>
5-6 Multiplying by Multiples of 10	<p>IXL Skill:</p> <p> 3E.7 Multiplication patterns over increasing place values 3E.8 Multiply by a multiple of ten </p> <p> 4D.6 Multiplication patterns over increasing place values </p>
5-7 Problem-Solving: Two-Question Problems	<p>IXL Skill:</p> <p> 3I.6 Multi-step word problems 4F.4 Multi-step word problems </p>

Topic 6: Multiplication Facts: Use Known Facts

Topic - Lesson	IXL Skill Alignment
6-1 The Distributive Property	<p>IXL Skill:</p> <ul style="list-style-type: none">3J.5 Properties of multiplication3J.6 Solve using properties of multiplication4D.7 Properties of multiplication
6-2 3 as a Factor	<p>IXL Skill:</p> <ul style="list-style-type: none">3E.2 Multiplication - facts to 123E.3 Multiplication word problems - facts to 123E.4 Missing factors - facts to 123E.5 Missing factors - facts to 12 - word problems3F.4 Multiply by 3 <ul style="list-style-type: none">4D.1 Multiplication facts to 124D.2 Missing factors - facts to 12
6-3 4 as a Factor	<p>IXL Skill:</p> <ul style="list-style-type: none">3E.2 Multiplication - facts to 123E.3 Multiplication word problems - facts to 123E.4 Missing factors - facts to 123E.5 Missing factors - facts to 12 - word problems3F.5 Multiply by 4 <ul style="list-style-type: none">4D.1 Multiplication facts to 124D.2 Missing factors - facts to 12
6-4 6 and 7 as Factors	<p>IXL Skill:</p> <ul style="list-style-type: none">3E.2 Multiplication - facts to 123E.3 Multiplication word problems - facts to 123E.4 Missing factors - facts to 123E.5 Missing factors - facts to 12 - word problems3F.7 Multiply by 63F.8 Multiply by 7

	<p>4D.1 Multiplication facts to 12 4D.2 Missing factors - facts to 12</p>
<p>6-5 8 as a Factor</p>	<p>IXL Skill:</p> <p>3E.2 Multiplication - facts to 12 3E.3 Multiplication word problems - facts to 12 3E.4 Missing factors - facts to 12 3E.5 Missing factors - facts to 12 - word problems 3F.9 Multiply by 8</p> <p>4D.1 Multiplication facts to 12 4D.2 Missing factors - facts to 12</p>
<p>6-6 Multiplying with 3 Factors</p>	<p>IXL Skill:</p> <p>3E.12 Multiply three or more numbers 3E.13 Multiply three or more numbers - word problems</p>
<p>6-7 Multiplication Facts</p>	<p>IXL Skill:</p> <p>2W.2 Multiplication tables up to 5 2W.3 Multiplication tables up to 10</p> <p>3E.1 Multiplication sentences 3E.2 Multiplication - facts to 12 3E.3 Multiplication word problems - facts to 12 3E.4 Missing factors - facts to 12 3E.5 Missing factors - facts to 12 - word problems 3F.1 Multiply by 0 3F.2 Multiply by 1 3F.3 Multiply by 2 3F.4 Multiply by 3 3F.5 Multiply by 4 3F.6 Multiply by 5 3F.7 Multiply by 6 3F.8 Multiply by 7 3F.9 Multiply by 8 3F.10 Multiply by 9 3F.11 Multiply by 10</p>

	<p>3F.12 Multiply by 11 3F.13 Multiply by 12</p> <p>4D.1 Multiplication facts to 12 4D.2 Missing factors - facts to 12</p>
6-8 Multiplying to Find Combinations	<p>IXL Skill:</p> <p>3U.4 Combinations 4V.5 Combinations</p>
6-9 Problem-Solving: Multiple-Step Problems	<p>IXL Skill:</p> <p>3I.6 Multi-step word problems 4F.4 Multi-step word problems</p>

Topic 7: Meanings of Division

Topic - Lesson	IXL Skill Alignment
7-1 Division as Sharing	<p>IXL Skill:</p> <p>2X.1 Divisors and quotients up to 5 2X.2 Divisors and quotients up to 10</p> <p>3G.1 Division facts to 5 3G.2 Division facts to 10 3G.3 Division word problems - facts to 10 3G.4 Complete the division sentence - facts to 10 3G.5 Division facts to 12</p> <p>4E.1 Division facts to 12 4E.2 Division facts to 12: word problems</p>
7-2 Division as Repeated Subtraction	<p>IXL Skill:</p> <p>3H.1 Divide by 1 3H.2 Divide by 2 3H.3 Divide by 3 3H.4 Divide by 4</p>

	<p>3H.5 Divide by 5 3H.6 Divide by 6 3H.7 Divide by 7 3H.8 Divide by 8 3H.9 Divide by 9 3H.10 Divide by 10 3H.11 Divide by 11 3H.12 Divide by 12</p>
7-3 Finding Missing Numbers in a Multiplication Table	<p>IXL Skill:</p> <p>3E.4 Missing factors - facts to 12 3E.5 Missing factors - facts to 12 - word problems 3G.4 Complete the division sentence - facts to 10</p>
7-4 Problem-Solving: Choose an Appropriate Equation	
7-5 Writing Division Stories	<p>IXL Skill:</p> <p>3G.3 Division word problems - facts to 10 4E.2 Division facts to 12: word problems</p>
7-6 Problem-Solving: Use Objects and Draw a Picture	

Topic 8: Division Facts

Topic - Lesson	IXL Skill Alignment
8-1 Relating Multiplication and Division	IXL Skill: 3J.8 Relate multiplication and division
8-2 Fact Families with 2, 3, 4, and 5	IXL Skill: 2K.3 Fact families 3H.2 Divide by 2 3H.3 Divide by 3 3H.4 Divide by 4 3H.5 Divide by 5
8-3 Fact Families with 6 and 7	IXL Skill: 2K.3 Fact families 3H.6 Divide by 6 3H.7 Divide by 7
8-4 Fact Families with 8 and 9	IXL Skill: 2K.3 Fact families 3H.8 Divide by 8 3H.9 Divide by 9
8-5 Problem-Solving: Multiple-Step Problems	IXL Skill: 3I.6 Multi-step word problems 4F.4 Multi-step word problems
8-6 Making Sense of Multiplication and Division Equations	IXL Skill: 3E.4 Missing factors - facts to 12 3E.5 Missing factors - facts to 12 - word problems 3K.3 Solve for the variable - with multiplication and

	<p>division</p> <p>3K.4 Write variable equations to represent word problems</p>
8-7 Dividing with 0 and 1	<p>IXL Skill:</p> <p>3G.1 Division facts to 5</p> <p>3G.2 Division facts to 10</p> <p>3G.3 Division word problems - facts to 10</p> <p>3G.4 Complete the division sentence - facts to 10</p> <p>3G.5 Division facts to 12</p> <p>3H.1 Divide by 1</p>
8-8 Multiplication and Division Facts	<p>IXL Skill:</p> <p>2W.1 Multiplication sentences</p> <p>2W.2 Multiplication tables up to 5</p> <p>2W.3 Multiplication tables up to 10</p> <p>2X.1 Divisors and quotients up to 5</p> <p>2X.2 Divisors and quotients up to 10</p> <p>3E.2 Multiplication - facts to 12</p> <p>3E.3 Multiplication word problems - facts to 12</p> <p>3G.1 Division facts to 5</p> <p>3G.2 Division facts to 10</p> <p>3G.3 Division word problems - facts to 10</p> <p>3G.4 Complete the division sentence - facts to 10</p> <p>3G.5 Division facts to 12</p> <p>4D.1 Multiplication facts to 12</p> <p>4E.1 Division facts to 12</p>
8-9 Problem-Solving: Draw a Picture and Write a Number Sentence	

Topic 9: Understanding Fractions

Topic - Lesson	IXL Skill Alignment
9-1 Dividing Regions into Equal Parts	IXL Skill: 2U.1 Equal parts 2U.2 Halves, thirds, and fourths
9-2 Fractions and Regions	IXL Skill: 2U.1 Equal parts 2U.2 Halves, thirds, and fourths 2U.3 Identify the fraction 2U.4 Which shape illustrates the fraction? 2U.5 Parts of a group 3S.1 Unit fraction review 3Q.4 Fractions review 4S.2 Fraction review
9-3 Fractions and Sets	IXL Skill: 2U.3 Identify the fraction 2U.4 Which shape illustrates the fraction? 2U.5 Parts of a group 3S.1 Unit fraction review 3Q.4 Fractions review 4S.2 Fraction review
9-4 Fractional Parts of a Set	IXL Skill: 3S.10 Fractions of a number 3S.11 Fractions of a number - word problems 4Q.7 Fractions of a number 4Q.8 Fractions of a number: word problems

9-5 Locating Fractions on a Number Line	IXL Skill: 3S.4 Fractions on number lines
9-6 Benchmark Fractions	
9-7 Fractions and Length	
9-8 Problem-Solving: Make a Table and Look for a Pattern	

Topic 10: Fraction Comparison and Equivalence

Topic - Lesson	IXL Skill Alignment
10-1 Using Models to Compare Fractions: Same Denominator	IXL Skill: 2U.7 Compare fractions 3S.5 Compare fractions 4Q.5 Compare fractions
10-2 Using Models to Compare Fractions: Same Numerator	IXL Skill: 2U.7 Compare fractions 3S.5 Compare fractions 4Q.5 Compare fractions
10-3 Compare Fractions Using Benchmarks	IXL Skill: 2U.7 Compare fractions 3S.5 Compare fractions 4Q.5 Compare fractions

<p>10-4 Comparing Fractions on the Number Line</p>	<p>IXL Skill:</p> <p>2U.7 Compare fractions</p> <p>3S.5 Compare fractions</p> <p>4Q.5 Compare fractions</p>
<p>10-5 Finding Equivalent Fractions</p>	<p>IXL Skill:</p> <p>3S.6 Equivalent fractions: type the missing numerator or denominator</p> <p>3S.7 Equivalent fractions: choose the equivalent fraction</p> <p>4Q.1 Equivalent fractions</p>
<p>10-6 Equivalent Fractions and the Number Line</p>	<p>IXL Skill:</p> <p>3S.6 Equivalent fractions: type the missing numerator or denominator</p> <p>3S.7 Equivalent fractions: choose the equivalent fraction</p> <p>4Q.1 Equivalent fractions</p>
<p>10-7 Whole Numbers and Fractions</p>	
<p>10-8 Using Fractions</p>	<p>IXL Skill:</p> <p>2U.7 Compare fractions</p> <p>2U.8 Order fractions</p> <p>3S.5 Compare fractions</p> <p>3S.9 Put fractions in order</p> <p>4Q.5 Compare fractions</p> <p>4Q.6 Put fractions in order</p>

10-9 Problem-Solving: Draw a Picture

Topic 11: Two-Dimensional Shapes and Their Attributes

Topic - Lesson	IXL Skill Alignment
11-1 Lines and Line Segments	IXL Skill: 3R.18 Lines, line segments, and rays 4P.26 Lines, line segments, and rays 4P.27 Parallel, perpendicular, intersecting
11-2 Angles	IXL Skill: 3R.17 Angles: greater than, less than, or equal to a right angle 4P.11 Acute, right, obtuse, and straight angles 4P.12 Angles of 90, 180, 270, and 360 degrees
11-3 Polygons	IXL Skill: 3R.19 Is it a polygon? 4P.3 Open and closed shapes and qualities of polygons 4P.4 Which 2-dimensional shape is being described?
11-4 Triangles	IXL Skill: 3R.20 Triangles: equilateral, isosceles, and scalene 3R.21 Triangles: acute, right, and obtuse 4P.2 Types of triangles

11-5 Quadrilaterals	IXL Skill: 3R.22 Classify quadrilaterals 4P.6 Classify quadrilaterals
11-6 Combining and Separating Shapes	
11-7 Making New Shapes	
11-8 Problem-Solving: Solve a Simpler Problem	
11-9 Problem-Solving: Make and Test Generalizations	

Topic 12: Time

Topic - Lesson	IXL Skill Alignment
12-1 Time to the Half Hour and Quarter Hour	IXL Skill: 2Q.2 Reading clocks 2Q.3 Time words: o'clock, half, quarter 2Q.4 Match clocks and times 2Q.5 Match analog and digital clocks 30.1 Read clocks and write times
12-2 Time to the Minute	IXL Skill: 2Q.2 Reading clocks 2Q.3 Time words: o'clock, half, quarter 2Q.4 Match clocks and times 2Q.5 Match analog and digital clocks 30.1 Read clocks and write times

12-3 Units of Time	<p>IXL Skill:</p> <p>2Q.15 Relate time units</p> <p>30.5 Relate time units</p> <p>30.7 Convert between hours and fractions of hours</p> <p>40.1 Convert time units</p> <p>40.2 Add and subtract mixed time units</p>
12-4 Elapsed Time	<p>IXL Skill:</p> <p>2Q.9 Elapsed time I</p> <p>2Q.10 Elapsed time II</p> <p>30.2 Elapsed time I</p> <p>30.3 Elapsed time II</p> <p>40.5 Elapsed time</p> <p>40.6 Find start and end times: multi-step word problems</p> <p>40.7 Transportation schedules</p>
12-5 Problem-Solving: Work Backward	

Topic 13: Perimeter

Topic - Lesson	IXL Skill Alignment
13-1 Understanding Perimeter	<p>IXL Skill:</p> <p>2T.7 Perimeter</p> <p>2T.8 Perimeter - word problems</p> <p>3R.7 Perimeter</p> <p>3R.8 Perimeter: find the missing side length</p> <p>4P.17 Perimeter</p>

<p>13-2 Tools and Units for Perimeter</p>	<p>IXL Skill:</p> <p>2T.7 Perimeter 2T.8 Perimeter - word problems</p> <p>3R.7 Perimeter 3R.8 Perimeter: find the missing side length</p> <p>4P.17 Perimeter</p>
<p>13-3 Perimeter of Common Shapes</p>	<p>IXL Skill:</p> <p>2T.7 Perimeter 2T.8 Perimeter - word problems</p> <p>3R.7 Perimeter 3R.8 Perimeter: find the missing side length</p> <p>4P.17 Perimeter</p>
<p>13-4 Different Shapes with the Same Perimeter</p>	<p>IXL Skill:</p> <p>2T.7 Perimeter 2T.8 Perimeter - word problems</p> <p>3R.7 Perimeter 3R.8 Perimeter: find the missing side length</p> <p>4P.17 Perimeter</p>
<p>13-5 Problem-Solving: Try, Check, and Revise</p>	<p>IXL Skill:</p> <p>20.1 Guess the number</p> <p>3M.1 Guess the number 3M.3 Find the order 3M.4 Age puzzles 3M.5 Guess two numbers based on sum and difference 3M.6 Guess two numbers based on sum, difference, product, and quotient</p>

Topic 14: Area

Topic - Lesson	IXL Skill Alignment
14-1 Covering Regions	<p>IXL Skill:</p> <p>2T.9 Area</p> <p>3R.9 Area of figures made of unit squares 3R.10 Area of rectangles 3R.11 Area of squares and rectangles: word problems</p> <p>4P.18 Area of squares and rectangles 4P.19 Area of complex figures (with all right angles) 4P.20 Compare area and perimeter of two figures 4P.21 Relationship between area and perimeter</p>
14-2 Area and Units	<p>IXL Skill:</p> <p>2T.9 Area</p> <p>3R.9 Area of figures made of unit squares 3R.10 Area of rectangles 3R.11 Area of squares and rectangles: word problems</p> <p>4P.18 Area of squares and rectangles 4P.19 Area of complex figures (with all right angles) 4P.20 Compare area and perimeter of two figures 4P.21 Relationship between area and perimeter</p>
14-3 Standard Units	<p>IXL Skill:</p> <p>2T.9 Area</p> <p>3R.9 Area of figures made of unit squares 3R.10 Area of rectangles 3R.11 Area of squares and rectangles: word problems</p>

	<p>4P.18 Area of squares and rectangles 4P.19 Area of complex figures (with all right angles) 4P.20 Compare area and perimeter of two figures 4P.21 Relationship between area and perimeter</p>
<p>14-4 Area of Squares and Rectangles</p>	<p>IXL Skill:</p> <p>2T.9 Area</p> <p>3R.9 Area of figures made of unit squares 3R.10 Area of rectangles 3R.11 Area of squares and rectangles: word problems</p> <p>4P.18 Area of squares and rectangles 4P.19 Area of complex figures (with all right angles) 4P.20 Compare area and perimeter of two figures 4P.21 Relationship between area and perimeter</p>
<p>14-5 Area and the Distributive Property</p>	<p>IXL Skill:</p> <p>2T.9 Area</p> <p>3R.9 Area of figures made of unit squares 3R.10 Area of rectangles 3R.11 Area of squares and rectangles: word problems</p> <p>4P.18 Area of squares and rectangles 4P.19 Area of complex figures (with all right angles) 4P.20 Compare area and perimeter of two figures 4P.21 Relationship between area and perimeter</p>
<p>14-6 Problem-Solving: Solve a Simpler Problem</p>	

<p>14-7 Area of Irregular Shapes</p>	<p>IXL Skill:</p> <p>3R.12 Area of complex figures (with all right angles)</p> <p>4P.19 Area of complex figures (with all right angles)</p>
<p>14-8 Same Area, Different Perimeter</p>	<p>IXL Skill:</p> <p>3R.13 Compare area and perimeter of two figures</p> <p>4P.20 Compare area and perimeter of two figures</p> <p>4P.21 Relationship between area and perimeter</p>
<p>14-9 Equal Areas and Fractions</p>	<p>IXL Skill:</p> <p>2T.9 Area</p> <p>3R.9 Area of figures made of unit squares</p> <p>3R.10 Area of rectangles</p> <p>3R.11 Area of squares and rectangles: word problems</p> <p>4P.18 Area of squares and rectangles</p> <p>4P.19 Area of complex figures (with all right angles)</p> <p>4P.20 Compare area and perimeter of two figures</p> <p>4P.21 Relationship between area and perimeter</p>
<p>14-10 Problem-Solving: Selecting Appropriate Measurement Units and Tools</p>	<p>IXL Skill:</p> <p>2S.13 Choose the appropriate measuring tool</p>

Topic 15: Liquid Volume and Mass

Topic - Lesson	IXL Skill Alignment
15-1 Customary Units of Capacity	<p>IXL Skill:</p> <p>2S.5 Which customary unit of volume is appropriate?</p> <p>3Q.6 Compare and convert customary units of volume</p> <p>4N.1 Compare and convert customary units</p>
15-2 Metric Units of Capacity	<p>IXL Skill:</p> <p>2S.10 Which metric unit of volume is appropriate?</p> <p>2S.11 Compare and convert metric units of volume</p> <p>3Q.12 Compare and convert metric units of volume</p> <p>4N.2 Compare and convert metric units</p>
15-3 Units of Mass	<p>IXL Skill:</p> <p>2S.12 Compare and convert metric units of weight</p> <p>3Q.11 Compare and convert metric units of weight</p> <p>4N.2 Compare and convert metric units</p>
15-4 Units of Weight	<p>IXL Skill:</p> <p>2S.4 Which customary unit of weight is appropriate?</p> <p>3Q.5 Compare and convert customary units of weight</p> <p>4N.1 Compare and convert customary units</p>

15-5 Problem-Solving: Draw a Picture	
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Topic 16: Data	
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Topic - Lesson	IXL Skill Alignment
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16-1 Line Plots	<p>IXL Skill:</p> <p>2R.4 Interpret line plots 2R.5 Create line plots</p> <p>3P.6 Interpret line plots 3P.7 Create line plots</p> <p>4J.6 Interpret line plots 4J.7 Create line plots</p>
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16-2 Length and Line Plots	<p>IXL Skill:</p> <p>2R.4 Interpret line plots 2R.5 Create line plots</p> <p>3P.6 Interpret line plots 3P.7 Create line plots</p> <p>4J.6 Interpret line plots 4J.7 Create line plots</p>
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16-3 Reading Pictographs and Bar Graphs	<p>IXL Skill:</p> <p>2R.2 Interpret bar graphs 2R.3 Which bar graph is correct? 2R.6 Interpret pictographs 2R.7 Create pictographs</p> <p>3P.4 Interpret bar graphs 3P.5 Create bar graphs 3P.8 Interpret pictographs 3P.9 Create pictographs</p> <p>4J.4 Interpret bar graphs 4J.5 Create bar graphs</p>
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<p>16-4 Making Pictographs</p>	<p>IXL Skill:</p> <p>2R.6 Interpret pictographs 2R.7 Create pictographs</p> <p>3P.8 Interpret pictographs 3P.9 Create pictographs</p>
<p>16-5 Making Bar Graphs</p>	<p>IXL Skill:</p> <p>2R.2 Interpret bar graphs 2R.3 Which bar graph is correct?</p> <p>3P.4 Interpret bar graphs 3P.5 Create bar graphs</p> <p>4J.4 Interpret bar graphs 4J.5 Create bar graphs</p>
<p>16-6 Problem-Solving: Use Tables and Graphs to Draw Conclusions</p>	<p>IXL Skill:</p> <p>2R.2 Interpret bar graphs 2R.6 Interpret pictographs</p> <p>3P.4 Interpret bar graphs 3P.8 Interpret pictographs</p> <p>4J.4 Interpret bar graphs</p>