Istation® Math

Correlation of Standards

State of Colorado Mathematics

Grades 2-5

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 2

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
PK-12 Standards for Mathematical Practices (MP) *The Standards for Mathematical Practice have been included in the Nature of Mathematics section in each grade level expectation of the Colorado Academic Standards. Each Mathematical Practice standard is listed as applicable to the right of each Istation Math resource with the corresponding code, MP1-8.*				
MP1	Make sense of problems and persevere in solving them.			
MP2	Reason abstractly and quantitatively.			
MP3	Construct viable arguments and critique the reasoning of others.			
MP4	Model with mathematics.			
MP5	Use appropriate tools strategically.			
MP6	Attend to precision.			
MP7	Look for and make use of structure.			
MP8	Look for and express regularity in repeated reasoning.			
Standard: 1. Number Sense, Properties, and Operations				
1. The whole number system describes place value relationships through 1,000 and forms the foundation for efficient algorithms.				

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 2

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
1.1a	Use place value to read, write, count, compare, and represent numbers.			
	i. Represent the digits of a three-digit number as hundreds, tens, and ones.	**Unit 30:** *Writing Standard Form from Expanded Form* **Unit 30:** *Writing Expanded Form from Standard Form* **Unit 30:** *Writing Word Form from Expanded and Standard Form*	**Unit 30:** *Building Numbers Using Base 10 Blocks* **Unit 30:** *Writing Expanded Form from Standard Form* **Unit 30:** *Writing Word Form from Expanded and Standard Form* **ISIP Math:** *Same Number, Different Ways* **ISIP Math:** *Place Value Pair-Up* **ISIP Math:** *Race to the Cube* **ISIP Math:** *Partitioning* **ISIP Math:** *Creating Numbers with Base 10 Blocks* **ISIP Math:** *Place Value Cups* **ISIP Math:** *Writing Standard Form from Expanded Form*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Count within 1000.		**ISIP Math:** *Skip Counting*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iii. Skip-count by 5s, 10s, and 100s.		**ISIP Math:** *Skip Counting*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iv. Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.	**Unit 30:** *Writing Standard Form from Expanded Form* **Unit 30:** *Writing Expanded Form from Standard Form* **Unit 30:** *Writing Word Form from Expanded and Standard Form*	**Unit 30:** *Writing Expanded Form from Standard Form* **Unit 30:** *Writing Word Form from Expanded and Standard Form* **ISIP Math:** *Same Number, Different Ways* **ISIP Math:** *Place Value Pair-Up* **ISIP Math:** *Partitioning* **ISIP Math:** *Place Value Cups* **ISIP Math:** *Writing Standard Form from Expanded Form*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	v. Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using >, =, and < symbols to record the results of comparisons.	**Unit 30:** *Comparing Whole Numbers with Language and Symbols* **Unit 30:** *Comparing Two Three-Digit Numbers* **Unit 30:** *Comparing Two Three-Digit Numbers with Zeroes*	**Unit 30:** *Comparison Symbols* **Unit 30:** *Comparison – Three-Digit Numbers* **ISIP Math:** *Steps for Comparing Three-Digit Numbers*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 2

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
1.1b	Use place value understanding and properties of operations to add and subtract.			
	i. Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.	**Unit 31:** *Adding with Regrouping Using Concrete Models* **Unit 31:** *Subtracting with Regrouping Using Concrete Models* **Unit 31:** *Adding with Regrouping – Partitioning* **Unit 31:** *Subtracting with Regrouping – Partitioning* **Unit 31:** *Adding on a Number Line* **Unit 31:** *Subtracting on a Number Line* **Unit 31:** *Fact Families – Addition and Subtraction*	**Unit 31:** *Adding with Regrouping – Concrete* **Unit 31:** *Subtracting with Regrouping – Concrete* **Unit 31:** *Adding Using Partitioning* **Unit 31:** *Subtracting Using Partitioning* **Unit 31:** *Adding on a Number Line* **Unit 31:** *Subtracting on a Number Line* **Unit 31:** *Fact Families – Addition and Subtraction* **ISIP Math:** *Addition and Subtraction Fact Families* **ISIP Math:** *Fact Family Triangles* **ISIP Math:** *Break Apart to Add* **ISIP Math:** *Race to the Cube* **ISIP Math:** *Using Arrow Paths to Add and Subtract* **ISIP Math:** *Math Mind Reader* **ISIP Math:** *Partitioning*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iii. Add and subtract within 1000, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method.	**Unit 31:** *Adding with Regrouping Using Concrete Models* **Unit 31:** *Subtracting with Regrouping Using Concrete Models* **Unit 31:** *Adding with Regrouping – Partitioning* **Unit 31:** *Subtracting with Regrouping – Partitioning* **Unit 31:** *Adding on a Number Line* **Unit 31:** *Subtracting on a Number Line* **Unit 31:** *Fact Families – Addition and Subtraction*	**Unit 31:** *Adding with Regrouping – Concrete* **Unit 31:** *Subtracting with Regrouping – Concrete* **Unit 31:** *Adding Using Partitioning* **Unit 31:** *Subtracting Using Partitioning* **Unit 31:** *Adding on a Number Line* **Unit 31:** *Subtracting on a Number Line* **Unit 31:** *Fact Families – Addition and Subtraction* **ISIP Math:** *Break Apart to Add* **ISIP Math:** *Race to the Cube* **ISIP Math:** *Using Arrow Paths to Add and Subtract* **ISIP Math:** *Partitioning* **ISIP Math:** *Skip Counting*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 2

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
1.1b (continued)	v. Explain why addition and subtraction strategies work, using place value and the properties of operations.	**Unit 31:** *Adding with Regrouping Using Concrete Models* **Unit 31:** *Subtracting with Regrouping Using Concrete Models* **Unit 31:** *Adding with Regrouping – Partitioning* **Unit 31:** *Subtracting with Regrouping – Partitioning* **Unit 31:** *Adding on a Number Line* **Unit 31:** *Subtracting on a Number Line* **Unit 31:** *Fact Families – Addition and Subtraction*	**Unit 31:** *Adding with Regrouping – Concrete* **Unit 31:** *Subtracting with Regrouping – Concrete* **Unit 31:** *Adding using Partitioning* **Unit 31:** *Subtracting using Partitioning* **Unit 31:** *Adding on a Number Line* **Unit 31:** *Subtracting on a Number Line* **Unit 31:** *Fact Families – Addition and Subtraction* **ISIP Math:** *Addition and Subtraction Fact Families* **ISIP Math:** *Fact Family Triangles* **ISIP Math:** *Break Apart to Add* **ISIP Math:** *Race to the Cube* **ISIP Math:** *Using Arrow Paths to Add and Subtract* **ISIP Math:** *Math Mind Reader* **ISIP Math:** *Partitioning*	*MP1* *MP2* *MP3* *MP4* *MP5* *MP6* *MP7* *MP8*
2. Formulate, represent, and use strategies to add and subtract within 100 with flexibility, accuracy, and efficiency.				
	Represent and solve problems involving addition and subtraction.			
1.2a	i. Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions.	**Unit 32:** *Two-Step Problems – Addition and Subtraction – Unknowns at the End* **Unit 32:** *Two-Step Problems – Addition and Subtraction – Unknowns in the Middle*	**Unit 32:** *Build Multistep Equations (Darcy's Diner)* **Unit 32:** *Build Multistep Equations with Multiple Operations (Jewels by Jules)* **Unit 32:** *Solve Multistep Equations with Multiple Operations (Cason's Closet)* **ISIP Math:** *Working Backward to Problem-Solve* **ISIP Math:** *Ben's Aquatic Adventure* **ISIP Math:** *Problem Solving with Base 10 Models* **ISIP Math:** *Choosing the Operation*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
1.2b	Fluently add and subtract within 20 using mental strategies.	**Unit 31:** *Fact Families – Addition and Subtraction*	**Unit 31:** *Fact Families – Addition and Subtraction* **ISIP Math:** *Addition and Subtraction Fact Families* **ISIP Math:** *Fact Family Triangles* **ISIP Math:** *Math Mind Reader*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 2

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
1.2c	Know from memory all sums of two one-digit numbers.	**Unit 31:** *Fact Families – Addition and Subtraction*	**Unit 31:** *Fact Families – Addition and Subtraction* **ISIP Math:** *Addition and Subtraction Fact Families* **ISIP Math:** *Fact Family Triangles* **ISIP Math:** *Math Mind Reader*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
Standard: 3. Data Analysis, Statistics, and Probability				
1. Visual displays of data can be constructed in a variety of formats to solve problems.				
3.1a	Represent and interpret data.			
	ii. Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories.	**Unit 33:** *Solve Problems Using Information Presented in Picture Graphs* **Unit 33:** *Solve Problems Using Information Presented in Bar Graphs*	**Unit 33:** *Solving Picture Graph Problems* **Unit 33:** *Solving Bar Graph Problems*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iii. Solve simple put together, take-apart, and compare problems using information presented in picture and bar graphs.	**Unit 33:** *Solve Problems Using Information Presented in Picture Graphs* **Unit 33:** *Solve Problems Using Information Presented in Bar Graphs*	**Unit 33:** *Solving Picture Graph Problems* **Unit 33:** *Solving Bar Graph Problems*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
Standard: 4. Shape, Dimension, and Geometric Relationships				
1. Shapes can be described by their attributes and used to represent part/whole relationships.				
4.1d	Partition circles and rectangles into two, three, or four equal shares, describe the shares using the words *halves, thirds, half of, a third of* , etc., and describe the whole as *two halves, three thirds, four fourths.*	**Unit 32:** *Partitioning to Identify Halves, Thirds, and Fourths* **Unit 32:** *Equal Shares of Identical Wholes*	**Unit 32:** *Identifying Halves, Thirds, Fourths* **Unit 32:** *Equal Shares of Identical Wholes*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
4.1e	Recognize that equal shares of identical wholes need not have the same shape.	**Unit 32:** *Partitioning to Identify Halves, Thirds, and Fourths* **Unit 32:** *Equal Shares of Identical Wholes*	**Unit 32:** *Identifying Halves, Thirds, Fourths* **Unit 32:** *Equal Shares of Identical Wholes*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 2

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
2. Some attributes of objects are measurable and can be quantified using different tools.				
4.2a	Measure and estimate lengths in standard units.			
	i. Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.		**ISIP Math:** *Appropriate Tools for Linear Measurement* **ISIP Math:** *How to Use Linear Measurement Tools* **ISIP Math:** *Measuring Objects* **ISIP Math:** *Ruler Relay*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Measure the length of an object twice, using length units of different lengths for the two measurements; describe how the two measurements relate to the size of the unit chosen.		**ISIP Math:** *Unit Relationships*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iv. Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit.		**ISIP Math:** *Ruler Relay*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
4.2b	Relate addition and subtraction to length.			
	i. Use addition and subtraction within 100 to solve word problems involving lengths that are given in the same units and equations with a symbol for the unknown number to represent the problem.		**ISIP Math:** *The Benevolent Ruler*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Represent whole numbers as lengths from 0 on a number line diagram and represent whole-number sums and differences within 100 on a number line diagram.	**Unit 31:** *Adding on a Number Line* **Unit 31:** *Subtracting on a Number Line*	**Unit 31:** *Adding on a Number Line* **Unit 31:** *Subtracting on a Number Line* **ISIP Math:** *Skip Counting*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
4.2c	Solve problems with time and money.			
	i. Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m.	**Unit 34:** *Tell Time to the Nearest Five Minutes*	**Unit 34:** *Time to the Nearest Five Minutes* **Unit 34:** *Time – AM and PM* **Unit 34:** *Time to the Quarter Hour*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using $ and ¢ symbols appropriately.		**Unit 32:** *Money Word Problems (Retail Riddles)*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

End of Grade 2

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 3

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
PK-12 Standards for Mathematical Practices (MP) *The Standards for Mathematical Practice have been included in the Nature of Mathematics section in each grade level expectation of the Colorado Academic Standards. Each Mathematical Practice standard is listed as applicable to the right of each Istation Math resource with the corresponding code, MP1-8.*				
MP1	Make sense of problems and persevere in solving them.			
MP2	Reason abstractly and quantitatively.			
MP3	Construct viable arguments and critique the reasoning of others.			
MP4	Model with mathematics.			
MP5	Use appropriate tools strategically.			
MP6	Attend to precision.			
MP7	Look for and make use of structure.			
MP8	Look for and express regularity in repeated reasoning.			
Standard: 1. Number Sense, Properties, and Operations				
1. The whole number system describes place value relationships and forms the foundation for efficient algorithms.				
1.1a	Use place value and properties of operations to perform multi-digit arithmetic.			
	i. Use place value to round whole numbers to the nearest 10 or 100.	**Unit 35:** *Rounding to the Nearest Ten* **Unit 35:** *Rounding to the Nearest Hundred*	**Unit 35:** *Rounding – Nearest Ten* **Unit 35:** *Rounding – Nearest Hundred* **Unit 35:** *Rounding – Nearest Ten, Hundred, Thousand* **Unit 35:** *Rounding within Three- and Four-Digit Numbers – Number Line*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.	**Unit 36:** *Two-Step Word Problems – All Operations*	**Unit 36:** *Two-Step Word Problems – All Operations*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iii. Multiply one-digit whole numbers by multiples of 10 in the range 10-90 using strategies based on place value and properties of operations.	**Unit 35:** *Arithmetic Patterns in Multiplication*	**Unit 35:** *Arithmetic Patterns in Multiplication*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 3

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
2. Parts of a whole can be modeled and represented in different ways.				
1.2a	Develop understanding of fractions as numbers.			
	i. Describe a fraction 1/*b* as the quantity formed by 1 part when a whole is partitioned into *b* equal parts; describe a fraction *a/b* as the quantity formed by *a* parts of size 1/*b*.	**Unit 37:** *Fractions Equivalent to One* **Unit 37:** *Fractions Equivalent to Whole Numbers* **Unit 37:** *Using Fraction Bars or Number Lines to Find Many Equivalent Fractions* **Unit 37:** *Using Fraction Bars or Number Lines to Determine If Two Fractions Are Equivalent*	**Unit 37:** *Fractions Equivalent to One* **Unit 37:** *Fractions Equivalent to Whole Numbers* **Unit 37:** *Many Equivalent Fractions* **Unit 37:** *Identifying Equivalent Fractions* **Unit 37:** *Expressing Equivalent Fractions with Denominators of 10 and 100* **Unit 37:** *Using Models to Identify Equivalent Fractions* **ISIP Math:** *Fractions in Problem Situations* **ISIP Math:** *Recognizing Fractions in Different Forms* **ISIP Math:** *Writing Fractions – Symbolic Notation* **ISIP Math:** *Identifying Equivalent Fractions Using Area Models*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Describe a fraction as a number on the number line; represent fractions on a number line diagram.	**Unit 37:** *Fractions Equivalent to One* **Unit 37:** *Fractions Equivalent to Whole Numbers* **Unit 37:** *Mixed Numbers* **Unit 37:** *Using Fraction Bars or Number Lines to Find Many Equivalent Fractions* **Unit 37:** *Using Fraction Bars or Number Lines to Determine If Two Fractions Are Equivalent*	**Unit 37:** *Fractions Equivalent to One* **Unit 37:** *Fractions Equivalent to Whole Numbers* **Unit 37:** *Mixed Numbers on a Number Line* **Unit 37:** *Many Equivalent Fractions* **Unit 37:** *Identifying Equivalent Fractions*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iii. Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size.	**Unit 37:** *Fractions Equivalent to One* **Unit 37:** *Fractions Equivalent to Whole Numbers* **Unit 37:** *Mixed Numbers* **Unit 37:** *Using Fraction Bars or Number Lines to Find Many Equivalent Fractions* **Unit 37:** *Using Fraction Bars or Number Lines to Determine If Two Fractions Are Equivalent* **Unit 37:** *Comparing Fractions with Same Denominators* **Unit 37:** *Comparing Fractions with Same Numerators*	**Unit 37:** *Fractions Equivalent to One* **Unit 37:** *Fractions Equivalent to Whole Numbers* **Unit 37:** *Mixed Numbers on a Number Line* **Unit 37:** *Many Equivalent Fractions* **Unit 37:** *Identifying Equivalent Fractions* **Unit 37:** *Expressing Equivalent Fractions with Denominators of 10 and 100* **Unit 37:** *Using Models to Identify Equivalent Fractions* **Unit 37:** *Fractions with Same Numerators* **Unit 37:** *Fractions with Like Denominators*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iii.1. Identify two fractions as equivalent (equal) if they are the same size or the same point on a number line.			
	iii.2. Identify and generate simple equivalent fractions. Explain why the fractions are equivalent.			
	iii.3. Express whole numbers as fractions, and recognize fractions that are equivalent to whole numbers.			
	iii.4. Compare two fractions with the same numerator or the same denominator by reasoning about their size.			
	iii.5. Explain why comparisons are valid only when the two fractions refer to the same whole.			
	iii.6. Record the results of comparisons with the symbols >, =, or <, and justify the conclusions.			

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 3

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
3. Multiplication and division are inverse operations and can be modeled in a variety of ways.				
1.3.a	Represent and solve problems involving multiplication and division.			
	i. Interpret products of whole numbers.	**Unit 36:** *Multiply One-Digit Numbers Using Concrete Models*	**Unit 36:** *One-Digit by One-Digit Multiplication* **Unit 36:** *Multiplying Two One-Digit Numbers with Arrays* **ISIP Math:** *Relating Multiplication and Division* **Fact Practice:** *Multominoes; Tall Towers*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Interpret whole-number quotients of whole numbers.		**ISIP Math:** *Relating Multiplication and Division*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iii. Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities.	**Unit 36:** *Two-Step Word Problems – All Operations*	**Unit 36:** *Two-Step Word Problems – All Operations* **ISIP Math:** *Multiplying with Three Factors* **ISIP Math:** *Strip Diagrams – Compare Problems* **ISIP Math:** *Doubling and Halving*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iv. Determine the unknown whole number in a multiplication or division equation relating three whole numbers.	**Unit 36:** *Fact Families – Multiplication and Division*	**Unit 36:** *Fact Families – Multiplication and Division* **ISIP Math:** *Practicing Fact Families* **ISIP Math:** *Relating Multiplication and Division* **ISIP Math:** *Strip Diagrams – Compare Problems* **ISIP Math:** *Using the Commutative Property of Multiplication*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
1.3b	Apply properties of multiplication and the relationship between multiplication and division.			
	i. Apply properties of operations as strategies to multiply and divide.	**Unit 36:** *Properties of Multiplication*	**ISIP Math:** *Using the Commutative Property of Multiplication* **ISIP Math:** *Multiplying with Three Factors*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Interpret division as an unknown-factor problem.	**Unit 36:** *Fact Families – Multiplication and Division*	**Unit 36:** *Fact Families – Multiplication and Division* **ISIP Math:** *Practicing Fact Families* **ISIP Math:** *Relating Multiplication and Division*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 3

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
	Multiply and divide within 100.			
1.3c	i. Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division or properties of operations.	**Unit 35:** *Arithmetic Patterns in Multiplication* **Unit 36:** *Multiply One-Digit Numbers Using Concrete Models* **Unit 36:** *Fact Families – Multiplication and Division* **Unit 36:** *Two-Step Word Problems – All Operations* **Unit 36:** *Properties of Multiplication*	**Unit 35:** *Arithmetic Patterns in Multiplication* **Unit 36:** *One-Digit by One-Digit Multiplication* **Unit 36:** *Multiplying Two One-Digit Numbers with Arrays* **Unit 36:** *Two-Step Word Problems – All Operations* **Unit 36:** *Fact Families – Multiplication and Division* **Fact Practice Activities:** *Dice Blocks; Multominoes; Spider Queen's Hidden Products; Spider Queen's Spiders; Tall Towers; Wipe Out* **ISIP Math:** *Practicing Fact Families* **ISIP Math:** *Relating Multiplication and Division* **ISIP Math:** *Strip Diagrams – Compare Problems* **ISIP Math:** *Using the Commutative Property of Multiplication* **ISIP Math:** *Doubling and Halving*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Recall from memory all products of two one-digit numbers.	**Unit 35:** *Arithmetic Patterns in Multiplication* **Unit 36:** *Multiply One-Digit Numbers Using Concrete Models* **Unit 36:** *Fact Families – Multiplication and Division* **Unit 36:** *Two-Step Word Problems – All Operations* **Unit 36:** *Properties of Multiplication*	**Unit 35:** *Arithmetic Patterns in Multiplication* **Unit 36:** *One-Digit by One-Digit Multiplication* **Unit 36:** *Multiplying Two One-Digit Numbers with Arrays* **Unit 36:** *Two-Step Word Problems – All Operations* **Unit 36:** *Fact Families – Multiplication and Division* **Fact Practice Activities:** *Dice Blocks; Multominoes; Spider Queen's Hidden Products; Spider Queen's Spiders; Tall Towers; Wipe Out* **ISIP Math:** *Practicing Fact Families* **ISIP Math:** *Relating Multiplication and Division* **ISIP Math:** *Strip Diagrams – Compare Problems* **ISIP Math:** *Using the Commutative Property of Multiplication* **ISIP Math:** *Doubling and Halving*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 3

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
1.3d	Solve problems involving the four operations, and identify and explain patterns in arithmetic.			
	i. Solve two-step word problems using the four operations.	**Unit 36:** *Two-Step Word Problems – All Operations*	**Unit 35:** *Problem Solving without Numbers: Addition and Subtraction* **Unit 36:** *Problem Solving without Numbers: Multiplication and Division* **Unit 36:** *Two-Step Word Problems – All Operations*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Represent two-step word problems using equations with a letter standing for the unknown quantity.	**Unit 36:** *Two-Step Word Problems – All Operations*	**Unit 35:** *Problem Solving without Numbers: Addition and Subtraction* **Unit 36:** *Problem Solving without Numbers: Multiplication and Division* **Unit 36:** *Two-Step Word Problems – All Operations*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iii. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.	**Unit 36:** *Two-Step Word Problems – All Operations*	**Unit 35:** *Problem Solving without Numbers: Addition and Subtraction* **Unit 36:** *Problem Solving without Numbers: Multiplication and Division* **Unit 36:** *Two-Step Word Problems – All Operations*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iv. Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations.	**Unit 35:** *Arithmetic Patterns in Multiplication*	**Unit 35:** *Arithmetic Patterns in Multiplication* **Unit 36:** *Fact Families – Multiplication and Division* **ISIP Math:** *Doubling and Halving* **ISIP Math:** *Practicing Fact Families* **ISIP Math:** *Relating Multiplication and Division* **ISIP Math:** *Using the Commutative Property of Multiplication*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 3

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
Standard: 3. Data Analysis, Statistics, and Probability				
1. Visual displays are used to describe data.				
	Represent and interpret data.			
3.1a	i. Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories.	**Unit 39:** *Solve Two-Step Problems Using Information Presented in Scaled Bar Graphs*	**Unit 39:** *Solving Two-Step Problems Using Bar Graphs*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Solve one- and two-step “how many more” and “how many less” problems using information presented in scaled bar graphs.	**Unit 39:** *Solve Two-Step Problems Using Information Presented in Scaled Bar Graphs*	**Unit 39:** *Solving Two-Step Problems Using Bar Graphs*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iii. Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch. Show the data by making a line plot, where the horizontal scale is marked off in appropriate units: whole numbers, halves, or quarters.		**ISIP Math:** *Measuring to the Nearest Quarter Inch*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
Standard: 4. Shape, Dimension, and Geometric Relationships				
1. Geometric figures are described by their attributes.				
	Reason with shapes and their attributes.			
4.1a	i. Explain that shapes in different categories may share attributes and that the shared attributes can define a larger category.		**ISIP Math:** *Are Squares the Perfect Shape?* **ISIP Math:** *Attributes of Polygons* **ISIP Math:** *Building Hexagons* **ISIP Math:** *Defining Quadrilaterals by Attributes* **ISIP Math:** *Multiplying with Polygons*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	i.1. Identify rhombuses, rectangles, and squares as examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to any of these subcategories.		**ISIP Math:** *Are Squares the Perfect Shape?* **ISIP Math:** *Attributes of Polygons* **ISIP Math:** *Building Hexagons* **ISIP Math:** *Defining Quadrilaterals by Attributes* **ISIP Math:** *Multiplying with Polygons*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 3

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
2. Linear and area measurement are fundamentally different and require different units of measure.				
4.2a	Use concepts of area and relate area to multiplication and to addition.			
	i. Recognize area as an attribute of plane figures and apply concepts of area measurement.		**ISIP Math:** *Area Square* **ISIP Math:** *Finding the Area of Polygons* **ISIP Math:** *Finding the Area of Rectangles*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Find area of rectangles with whole number side lengths using a variety of methods.		**ISIP Math:** *Area Square* **ISIP Math:** *Finding the Area of Polygons* **ISIP Math:** *Finding the Area of Rectangles*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iii. Relate area to the operations of multiplication and addition and recognize area as additive.		**ISIP Math:** *Area Square* **ISIP Math:** *Finding the Area of Polygons* **ISIP Math:** *Finding the Area of Rectangles*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
4.2c	Solve real world and mathematical problems involving perimeters of polygons.	**Unit 38:** *Perimeter Word Problems*	**Unit 38:** *Perimeter Bundle* **ISIP Math:** *Perimeter of Polygons*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	i. Find the perimeter given the side lengths.	**Unit 38:** *Perimeter Word Problems*	**Unit 38:** *Perimeter Bundle* **ISIP Math:** *Perimeter of Polygons*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Find an unknown side length given the perimeter.	**Unit 38:** *Perimeter Word Problems*	**Unit 38:** *Perimeter Bundle* **ISIP Math:** *Perimeter of Polygons*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iii. Find rectangles with the same perimeter and different areas or with the same area and different perimeters.	**Unit 38:** *Perimeter Word Problems*	**Unit 38:** *Perimeter Bundle* **ISIP Math:** *Perimeter of Polygons*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 3

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
3. Time and attributes of objects can be measured with appropriate tools.				
4.3a	Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.			
	i. Tell and write time to the nearest minute.	**Unit 39:** *Elapsed Time on a Number Line*	**Unit 39:** *Elapsed Time within One Hour* **Unit 39:** *Elapsed Time across Hours*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Measure time intervals in minutes.	**Unit 39:** *Elapsed Time on a Number Line*	**Unit 39:** *Elapsed Time within One Hour* **Unit 39:** *Elapsed Time across Hours*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iii. Solve word problems involving addition and subtraction of time intervals in minutes using a number line diagram.	**Unit 39:** *Elapsed Time on a Number Line*	**Unit 39:** *Elapsed Time within One Hour* **Unit 39:** *Elapsed Time across Hours*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

End of Grade 3

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 4

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
PK-12 Standards for Mathematical Practices (MP) *The Standards for Mathematical Practice have been included in the Nature of Mathematics section in each grade level expectation of the Colorado Academic Standards. Each Mathematical Practice standard is listed as applicable to the right of each Istation Math resource with the corresponding code, MP1-8.*				
MP1	Make sense of problems and persevere in solving them.			
MP2	Reason abstractly and quantitatively.			
MP3	Construct viable arguments and critique the reasoning of others.			
MP4	Model with mathematics.			
MP5	Use appropriate tools strategically.			
MP6	Attend to precision.			
MP7	Look for and make use of structure.			
MP8	Look for and express regularity in repeated reasoning.			
Standard: 1. Number Sense, Properties, and Operations				
1. The decimal number system to the hundredths place describes place value patterns and relationships that are repeated in large and small numbers and forms the foundation for efficient algorithms.				
1.1a	Generalize place value understanding for multi-digit whole numbers.			
	i. Explain that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right.	**Unit 40:** *Writing Standard Form from Expanded Form to Thousands* **Unit 40:** *Writing Expanded Form from Standard Form to Thousands* **Unit 40:** *Writing Word Form from Expanded and Standard Form to Thousands* **Unit 40:** *Writing Standard Form from Expanded Form through Millions* **Unit 40:** *Writing Expanded Form from Standard Form through Millions* **Unit 40:** *Writing Word Form from Expanded and Standard Form through Thousands and Millions*	**Unit 40:** *Writing Expanded Form from Standard through Thousands and Millions* **Unit 40:** *Writing Standard Form from Expanded through Thousands and Millions* **Unit 40:** *Writing Word Form from Expanded and Standard through Thousands and Millions*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form.	**Unit 40:** *Writing Standard Form from Expanded Form to Thousands* **Unit 40:** *Writing Expanded Form from Standard Form to Thousands* **Unit 40:** *Writing Word Form from Expanded and Standard Form to Thousands* **Unit 40:** *Writing Standard Form from Expanded Form through Millions* **Unit 40:** *Writing Expanded Form from Standard Form through Millions* **Unit 40:** *Writing Word Form from Expanded and Standard Form through Thousands and Millions*	**Unit 40:** *Writing Expanded Form from Standard through Thousands and Millions* **Unit 40:** *Writing Standard Form from Expanded through Thousands and Millions* **Unit 40:** *Writing Word Form from Expanded and Standard through Thousands and Millions*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 4

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
1.1a (continued)	iii. Compare two multi-digit numbers based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons.	**Unit 40:** *Writing Standard Form from Expanded Form to Thousands* **Unit 40:** *Writing Expanded Form from Standard Form to Thousands* **Unit 40:** *Writing Word Form from Expanded and Standard Form to Thousands* **Unit 40:** *Writing Standard Form from Expanded Form through Millions* **Unit 40:** *Writing Expanded Form from Standard Form through Millions* **Unit 40:** *Writing Word Form from Expanded and Standard Form through Thousands and Millions*	**Unit 40:** *Writing Expanded Form from Standard through Thousands and Millions* **Unit 40:** *Writing Standard Form from Expanded through Thousands and Millions* **Unit 40:** *Writing Word Form from Expanded and Standard through Thousands and Millions*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iv. Use place value understanding to round multi-digit whole numbers to any place.	**Unit 40:** *Rounding within Whole Numbers to the Nearest Ten, Hundred, Thousand with Number Line* **Unit 40:** *Rounding within Whole Numbers to the Nearest Ten, Hundred, Thousand with Algorithm* **Unit 40:** *Rounding Zero*	**Unit 40:** *Rounding – Nearest Thousand* **Unit 40:** *Rounding – Nearest Ten, Hundred, Thousand* **Unit 40:** *Rounding within Three- and Four-Digit Numbers – Number Line* **Unit 40:** *Rounding within Three- and Four-Digit Numbers – Abstract* **Unit 40:** *Zero as the Rounding Digit*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 4

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
1.1b	Use decimal notation to express fractions, and compare decimal fractions.			
	i. Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective denominators 10 and 100.	**Unit 43:** *Add Fractions with Both Denominators of 10 and 100* **Unit 43:** *Express Equivalent Fractions – Tenths and Hundredths* **Unit 43:** *Add a Denominator of 10 to a Denominator of 100* **Unit 43:** *Add Fractions with Denominators of 10 and 100*	**Unit 43:** *Expressing Equivalent Fractions with Denominators of 10 and 100* **Unit 43:** *Add Denominators of 10 to Denominators of 100* **Unit 43:** *Adding Like Denominators of 10 and 100*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Use decimal notation for fractions with denominators 10 or 100.	**Unit 43:** *Write Word Form of Decimals (0.1-0.9 and 0.01-0.09)* **Unit 43:** *Write Word Form of Decimals (0.10-0.90)* **Unit 43:** *Write Word Form of Decimals (0.01-1.99)*	**Unit 43:** *Decimals as Fractions (Tenths and Hundredths)* **Unit 43:** *Decimals – Standard and Word Form* **ISIP Math:** *Linking Fractions to Equivalent Decimal Numbers* **ISIP Math:** *Understanding Decimal Numbers with Fractional Language*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iii. Compare two decimals to hundredths by reasoning about their size.		**ISIP Math:** *Comparing and Ordering Decimals*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 4

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
2. Different models and representations can be used to compare fractional parts.				
	Use ideas of fraction equivalence and ordering to:			
	i. Explain equivalence of fractions using drawings and models.	**Unit 43:** *Using Models to Compare Equivalent Fractions* **Unit 43:** *Expressing Equivalent Fractions with Denominators of 10 and 100*	**Unit 37:** *Using Models to Identify Equivalent Fractions* **Unit 43:** *Expressing Equivalent Fractions with Denominators of 10 and 100* **ISIP Math:** *Comparing Fractions* **ISIP Math:** *Using Area Models to Compare Fractions*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
1.2a	ii. Use the principle of fraction equivalence to recognize and generate equivalent fractions.	**Unit 43:** *Using Models to Compare Equivalent Fractions* **Unit 43:** *Expressing Equivalent Fractions with Denominators of 10 and 100*	**Unit 37:** *Using Models to Identify Equivalent Fractions* **Unit 43:** *Expressing Equivalent Fractions with Denominators of 10 and 100* **ISIP Math:** *Comparing Fractions* **ISIP Math:** *Using Area Models to Compare Fractions*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iii. Compare two fractions with different numerators and different denominators, and justify the conclusions.	**Unit 43:** *Use Benchmark Fractions to Compare Fractions with Different Denominators* **Unit 43:** *Compare Fractions with Unlike Denominators by Creating Common Denominators*	**Unit 43:** *Compare Fractions by Creating Common Denominators* **Unit 43:** *Benchmark Fractions* **Unit 43:** *Fractions – Symbols* **ISIP Math:** *Comparing Fractions* **ISIP Math:** *Using Area Models to Compare Fractions*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 4

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
1.2b	Build fractions from unit fractions by applying understandings of operations on whole numbers.			
	i. Apply previous understandings of addition and subtraction to add and subtract fractions.	**Unit 43:** *Add Fractions with Both Denominators of 10 and 100* **Unit 43:** *Add a Denominator of 10 to a Denominator of 100* **Unit 43:** *Add Fractions with Denominators of 10 and 100*	**Unit 43:** *Compare Fractions by Creating Common Denominators* **Unit 43:** *Benchmark Fractions* **Unit 43:** *Fractions – Symbols* **ISIP Math:** *Comparing Fractions* **ISIP Math:** *Using Area Models to Compare Fractions*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	i.1. Compose and decompose fractions as sums and differences of fractions with the same denominator in more than one way and justify with visual models.	**Unit 43:** *Add Fractions with Both Denominators of 10 and 100* **Unit 43:** *Add a Denominator of 10 to a Denominator of 100* **Unit 43:** *Add Fractions with Denominators of 10 and 100* **Unit 43:** *Decomposing Fractions (Reteach lesson)*	**Unit 43:** *Compare Fractions by Creating Common Denominators* **Unit 43:** *Benchmark Fractions* **Unit 43:** *Fractions – Symbols* **ISIP Math:** *Comparing Fractions* **ISIP Math:** *Using Area Models to Compare Fractions*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
3. Formulate, represent, and use algorithms to compute with flexibility, accuracy, and efficiency.				
1.3a	Use place value understanding and properties of operations to perform multi-digit arithmetic.			
	ii. Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations.	**Unit 41:** *Multiply Two-Digit Numbers with Concrete Models*	**Unit 41:** *Two-Digit by Two-Digit Concrete Multiplication* **ISIP Math:** *Commutative Property of Multiplication to Represent Numbers* **ISIP Math:** *Multiplying Using the Distributive Property*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iii. Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division.	**Unit 42:** *Solve Multistep Word Problems*	**Unit 42:** *Solve Multistep Word Problems*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iv. Illustrate and explain multiplication and division calculation by using equations, rectangular arrays, and/or area models.	**Unit 42:** *Solve Multistep Word Problems*	**Unit 42:** *Solve Multistep Word Problems*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 4

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
1.3b	Use the four operations with whole numbers to solve problems.			
	i. Interpret a multiplication equation as a comparison.	**Unit 41:** *Multiply Two-Digit Numbers with Concrete Models* **Unit 42:** *Solve Multistep Word Problems*	**Unit 41:** *Two-Digit by Two-Digit Concrete Multiplication* **Unit 42:** *Solve Multistep Word Problems* **ISIP Math:** *Using Arrays to Derive and Learn Basic Facts* **ISIP Math:** *Commutative Property of Multiplication to Represent Numbers*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Represent verbal statements of multiplicative comparisons as multiplication equations.	**Unit 42:** *Solve Multistep Word Problems*	**Unit 42:** *Solve Multistep Word Problems* **ISIP Math:** *Using Multiplication to Solve If-Then Word Problems*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iii. Multiply or divide to solve word problems involving multiplicative comparison.	**Unit 42:** *Solve Multistep Word Problems*	**Unit 42:** *Solve Multistep Word Problems* **ISIP Math:** *Using Multiplication to Solve If-Then Word Problems*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iv. Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted.	**Unit 42:** *Solve Multistep Word Problems*	**Unit 42:** *Solve Multistep Word Problems* **ISIP Math:** *Using Multiplication to Solve If-Then Word Problems*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	v. Represent multistep word problems with equations using a variable to represent the unknown quantity.	**Unit 42:** *Solve Multistep Word Problems*	**Unit 42:** *Solve Multistep Word Problems* **ISIP Math:** *Using Multiplication to Solve If-Then Word Problems*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 4

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
Standard: 2. Patterns, Functions, and Algebraic Structures				
1. Number patterns and relationships can be represented by symbols.				
2.1a	Generate and analyze patterns and identify apparent features of the pattern that were not explicit in the rule itself.		**ISIP Math:** *Integrating Fact Practice Using Input/Output Function Tables*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	i. Use number relationships to find the missing number in a sequence.		**ISIP Math:** *Integrating Fact Practice Using Input/Output Function Tables*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Use a symbol to represent and find an unknown. quantity in a problem situation.		**ISIP Math:** *Integrating Fact Practice Using Input/Output Function Tables*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iii. Complete input/output tables.		**ISIP Math:** *Integrating Fact Practice Using Input/Output Function Tables*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iv. Find the unknown in simple equations.		**ISIP Math:** *Integrating Fact Practice Using Input/Output Function Tables*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 4

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
2.1b	Apply concepts of squares, primes, composites, factors, and multiples to solve problems.			
	i. Find all factor pairs for a whole number in the range 1-100.		**Fact Practice Activities:** *Dice Blocks; Multominoes; Spider Queen's Hidden Products; Spider Queen's Spiders; Tall Towers; Wipe Out* **ISIP Math:** *Multiplication Practice Game*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Recognize that a whole number is a multiple of each of its factors.		**Fact Practice Activities:** *Dice Blocks; Multominoes; Spider Queen's Hidden Products; Spider Queen's Spiders; Tall Towers; Wipe Out* **ISIP Math:** *Multiplication Practice Game*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iii. Determine whether a given whole number in the range 1-100 is a multiple of a given one-digit number.		**Fact Practice Activities:** *Dice Blocks; Multominoes; Spider Queen's Hidden Products; Spider Queen's Spiders; Tall Towers; Wipe Out* **ISIP Math:** *Multiplication Practice Game*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iv. Determine whether a given whole number in the range 1-100 is prime or composite.		**Fact Practice Activities:** *Dice Blocks; Multominoes; Spider Queen's Hidden Products; Spider Queen's Spiders; Tall Towers; Wipe Out* **ISIP Math:** *Multiplication Practice Game*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 4

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
Standard: 4. Shape, Dimension, and Geometric Relationships				
1. Appropriate measurement tools, units, and systems are used to measure different attributes of objects and time.				
	Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.			
	i. Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec.	**Unit 44:** *Converting Units of Measurement to Solve Word Problems*	**Unit 44:** *Measurement Conversion Word Problems*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table.	**Unit 44:** *Converting Units of Measurement to Solve Word Problems*	**Unit 44:** *Measurement Conversion Word Problems*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
4.1a	iii. Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit.	**Unit 44:** *Converting Units of Measurement to Solve Word Problems*	**Unit 44:** *Measurement Conversion Word Problems* **ISIP Math:** *Calculating Elapsed Time* **ISIP Math:** *Area of Rectangles and Part-Part-Whole Word Problems* **ISIP Math:** *Measuring Length to the Nearest Quarter Inch*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iv. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale.	**Unit 44:** *Converting Units of Measurement to Solve Word Problems*	**Unit 44:** *Measurement Conversion Word Problems* **ISIP Math:** *Calculating Elapsed Time* **ISIP Math:** *Area of Rectangles and Part-Part-Whole Word Problems* **ISIP Math:** *Measuring Length to the Nearest Quarter Inch*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	v. Apply the area and perimeter formulas for rectangles in real world and mathematical problems.		**ISIP Math:** *Area of Rectangles and Part-Part-Whole Word Problems* **ISIP Math:** *Finding Area of Rectangles and Squares by Using Multiplication* **ISIP Math:** *Making Connections between Multiplication and Area* **ISIP Math:** *Quantifying Areas of Rectangles and Squares*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 4

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
4.1b	Use concepts of angle and measure angles.			
	i. Describe angles as geometric shapes that are formed wherever two rays share a common endpoint, and explain concepts of angle measurement.	**Unit 45:** Measure Angles with a Protractor	**Unit 45:** *Measure Angles with a Protractor* **ISIP Math:** *Line and Angle Identification*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Measure angles in whole-number degrees using a protractor. Sketch angles of specified measure.	**Unit 45:** *Measure Angles with a Protractor*	**Unit 45:** *Measure Angles with a Protractor* **ISIP Math:** *Line and Angle Identification*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iii. Demonstrate that angle measure as additive.	**Unit 45:** *Missing Angles*	**Unit 45:** *Missing Angles* **ISIP Math:** *Decomposing Figures to Find the Area of Polygons*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iv. Solve addition and subtraction problems to find unknown angles on a diagram in real world and mathematical problems.	**Unit 45:** *Missing Angles*	**Unit 45:** *Missing Angles* **ISIP Math:** *Decomposing Figures to Find the Area of Polygons*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
2. Geometric figures in the plane and in space are described and analyzed by their attributes.				
4.2a	Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines.	**Unit 45:** *Measure Angles with a Protractor*	**Unit 45:** *Measure Angles with a Protractor* **ISIP Math:** *Line and Angle Identification*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
4.2b	Identify points, line segments, angles, and perpendicular and parallel lines in two-dimensional figures.	**Unit 45:** *Measure Angles with a Protractor*	**Unit 45:** *Measure Angles with a Protractor* **ISIP Math:** *Line and Angle Identification*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
End of Grade 4				

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 5

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
PK-12 Standards for Mathematical Practices (MP) *The Standards for Mathematical Practice have been included in the Nature of Mathematics section in each grade level expectation of the Colorado Academic Standards. Each Mathematical Practice standard is listed as applicable to the right of each Istation Math resource with the corresponding code, MP1-8.*				
MP1	Make sense of problems and persevere in solving them.			
MP2	Reason abstractly and quantitatively.			
MP3	Construct viable arguments and critique the reasoning of others.			
MP4	Model with mathematics.			
MP5	Use appropriate tools strategically.			
MP6	Attend to precision.			
MP7	Look for and make use of structure.			
MP8	Look for and express regularity in repeated reasoning.			
Standard: 1. Number Sense, Properties, and Operations				
1. The decimal number system describes place value patterns and relationships that are repeated in large and small numbers and forms the foundation for efficient algorithms.				

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 5

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
1.1a	Explain that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left.	**Unit 46:** *Multiplying Decimals by 10 and 100* **Unit 46:** *Dividing Decimals by 10 and 100* **Unit 46:** *Exploring Powers of Ten* **Unit 46:** *Multiplying and Dividing Decimals by Powers of 10*	**Unit 46:** *Multiplying Decimals by 10 and 100* **Unit 46:** *Dividing Decimals by 10 and 100* **Unit 46:** *Multiplying and Dividing Decimals by Powers of Ten* **Unit 46:** *Exploring Powers of 10* **Unit 46:** *Decimal Grids and Place Value Mats* **Unit 46:** *Decimals on Place Value Mats*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	i. Explain patterns in the number of zeros of the product when multiplying a number by powers of 10.	**Unit 46:** *Multiply Decimals by 10 and 100* **Unit 46:** *Divide Decimals by 10 and 100* **Unit 46:** *Exploring Powers of Ten* **Unit 46:** *Multiply and Divide Decimals by Powers of 10*	**Unit 46:** *Multiplying Decimals by 10 and 100* **Unit 46:** *Dividing Decimals by 10 and 100* **Unit 46:** *Multiplying and Dividing Decimals by Powers of 10* **Unit 46:** *Exploring Powers of Ten*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10.	**Unit 46:** *Multiply Decimals by 10 and 100* **Unit 46:** *Divide Decimals by 10 and 100* **Unit 46:** *Exploring Powers of Ten* **Unit 46:** *Multiply and Divide Decimals by Powers of 10*	**Unit 46:** *Multiplying Decimals by 10 and 100* **Unit 46:** *Dividing Decimals by 10 and 100* **Unit 46:** *Multiplying and Dividing Decimals by Powers of Ten* **Unit 46:** *Exploring Powers of 10* **Unit 46:** *Decimal Grids and Place Value Mats* **Unit 46:** *Decimals on Place Value Mats*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iii. Use whole-number exponents to denote powers of 10.	**Unit 46:** *Multiply Decimals by 10 and 100* **Unit 46:** *Divide Decimals by 10 and 100* **Unit 46:** *Exploring Powers of Ten* **Unit 46:** *Multiply and Divide Decimals by Powers of 10*	**Unit 46:** *Multiplying Decimals by 10 and 100* **Unit 46:** *Dividing Decimals by 10 and 100* **Unit 46:** *Multiplying and Dividing Decimals by Powers of Ten* **Unit 46:** *Exploring Powers of 10* **Unit 46:** *Decimal Grids and Place Value Mats* **Unit 46:** *Decimals on Place Value Mats*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 5

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
1.1b	Read, write, and compare decimals to thousandths.	**Unit 46:** *Concrete Decimal Comparison* **Unit 46:** *Decimal Comparison with Grids* **Unit 46:** *Comparison of Tenths and Hundredths on the Number Line* **Unit 46:** *Abstract Comparison of Tenths and Hundredths* **Unit 46:** *Abstract Comparison of Thousandths* **Unit 46:** *Abstract Comparison of Whole Numbers and Decimals*	**Unit 46:** *Abstract Decimal Comparison* **Unit 46:** *Decimal Comparison on the Number Line* **Unit 46:** *Decimals to Whole Numbers*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Compare two decimals to thousandths based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons.	**Unit 46:** *Concrete Decimal Comparison* **Unit 46:** *Decimal Comparison with Grids* **Unit 46:** *Comparison of Tenths and Hundredths on the Number Line* **Unit 46:** *Abstract Comparison of Tenths and Hundredths* **Unit 46:** *Abstract Comparison of Thousandths* **Unit 46:** *Abstract Comparison of Whole Numbers and Decimals*	**Unit 46:** *Abstract Decimal Comparison* **Unit 46:** *Decimal Comparison on the Number Line* **Unit 46:** *Decimals to Whole Numbers*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
1.1c	Use place value understanding to round decimals to any place.	**Unit 46:** *Rounding Decimals with a Number Line* **Unit 46:** *Rounding Decimals with Dials* **Unit 46:** *Roll-Over Rounding*	**Unit 46:** *Rounding – Decimals – Number Line* **Unit 46:** *Rounding – Decimals – Algorithm*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
1.1d	Convert like measurement units within a given measurement system.			
	i. Convert among different-sized standard measurement units within a given measurement system.		**ISIP Math:** *Converting Standard Units of Measurement* **ISIP Math:** *Performing Customary Measurement Conversions*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Use measurement conversions in solving multi-step, real world problems.		**ISIP Math:** *Converting Standard Units of Measurement* **ISIP Math:** *Performing Customary Measurement Conversions*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 5

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
2. Formulate, represent, and use algorithms with multi-digit whole numbers and decimals with flexibility, accuracy, and efficiency.				
1.2a	Fluently multiply multi-digit whole numbers using standard algorithms.	**Unit 48:** *Multiplying by Fractions Less Than One* **Unit 48:** *Multiplying by Fractions Less Than One with Improper Fractions*	**Unit 48:** *Multiplying by Fractions Less Than One* **Unit 48:** *Multiplying by Fractions Less Than One with Improper Fractions*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 5

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
1.2b	Find whole-number quotients of whole numbers.	**Unit 44:** *Divide with Concrete Models* **Unit 44:** *Divide Using an Algorithm*	**Unit 44:** *Divide with Concrete Models* **Unit 44:** *Divide Using an Algorithm* **ISIP Math:** *Estimating Quotients Using Compatible Numbers* **ISIP Math:** *Models for Understanding Remainders* **ISIP Math:** *Using Models to Practice Extended Division Facts* **ISIP Math:** *Inverse Operations and Fact Families to Solve Simple Equations* **ISIP Math:** *Solving Multiplication and Division Word Problems with Diagrams*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	i. Use strategies based on place value, the properties of operations, and/or the relationship between multiplication and division.	**Unit 44:** *Divide with Concrete Models* **Unit 44:** *Divide Using an Algorithm*	**Unit 44:** *Divide with Concrete Models* **Unit 44:** *Divide Using an Algorithm* **ISIP Math:** *Estimating Quotients Using Compatible Numbers* **ISIP Math:** *Models for Understanding Remainders* **ISIP Math:** *Using Models to Practice Extended Division Facts* **ISIP Math:** *Inverse Operations and Fact Families to Solve Simple Equations* **ISIP Math:** *Solving Multiplication and Division Word Problems with Diagrams*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Illustrate and explain calculations by using equations, rectangular arrays, and/or area models.	**Unit 44:** *Divide with Concrete Models* **Unit 44:** *Divide Using an Algorithm*	**Unit 44:** *Divide with Concrete Models* **Unit 44:** *Divide Using an Algorithm* **ISIP Math:** *Estimating Quotients Using Compatible Numbers* **ISIP Math:** *Models for Understanding Remainders* **ISIP Math:** *Using Models to Practice Extended Division Facts* **ISIP Math:** *Inverse Operations and Fact Families to Solve Simple Equations* **ISIP Math:** *Solving Multiplication and Division Word Problems with Diagrams*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics
Grade 5

Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
1.2c	Add, subtract, multiply, and divide decimals to hundredths.	**Unit 46:** *Multiplying Decimals by 10 and 100* **Unit 46:** *Dividing Decimals by 10 and 100* **Unit 46:** *Exploring Powers of Ten* **Unit 46:** *Multiplying and Dividing Decimals by Powers of 10*	**Unit 47:** *Decimal Addition* **Unit 47:** *Decimal Subtraction* **Unit 47:** *Concrete Decimal Division* **Unit 47:** *Representational Decimal Division* **Unit 46:** *Multiplying Decimals by 10 and 100* **Unit 46:** *Dividing Decimals by 10 and 100* **Unit 46:** *Multiplying and Dividing Decimals by Powers of Ten* **ISIP Math:** *Adding and Subtracting Decimal Numbers in a Word Problem* **ISIP Math:** *Calculating Reasonable Estimates of Decimal Number Sums*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	i. Use concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.	**Unit 46:** *Multiplying Decimals by 10 and 100* **Unit 46:** *Dividing Decimals by 10 and 100* **Unit 46:** *Exploring Powers of Ten* **Unit 46:** *Multiplying and Dividing Decimals by Powers of 10*	**Unit 47:** *Decimal Addition* **Unit 47:** *Decimal Subtraction* **Unit 47:** *Concrete Decimal Division* **Unit 47:** *Representational Decimal Division* **Unit 46:** *Multiplying Decimals by 10 and 100* **Unit 46:** *Dividing Decimals by 10 and 100* **Unit 46:** *Multiplying and Dividing Decimals by Powers of Ten* **ISIP Math:** *Adding and Subtracting Decimal Numbers in a Word Problem* **ISIP Math:** *Calculating Reasonable Estimates of Decimal Number Sums*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

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Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
1.2c (continued)	ii. Relate strategies to a written method and explain the reasoning used.	**Unit 46:** *Multiplying Decimals by 10 and 100* **Unit 46:** *Dividing Decimals by 10 and 100* **Unit 46:** *Exploring Powers of Ten* **Unit 46:** *Multiplying and Dividing Decimals by Powers of 10*	**Unit 47:** *Decimal Addition* **Unit 47:** *Decimal Subtraction* **Unit 47:** *Concrete Decimal Division* **Unit 47:** *Representational Decimal Division* **Unit 46:** *Multiplying Decimals by 10 and 100* **Unit 46:** *Dividing Decimals by 10 and 100* **Unit 46:** *Multiplying and Dividing Decimals by Powers of 10* **ISIP Math:** *Adding and Subtracting Decimal Numbers in a Word Problem* **ISIP Math:** *Calculating Reasonable Estimates of Decimal Number Sums*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
1.2d	Write and interpret numerical expressions.			
	i. Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.	**Unit 49:** *Writing Expressions from Words* **Unit 49:** *Interpreting Expressions* **Unit 49:** *Evaluate Numerical Expressions with Parentheses*	**Unit 49:** *Writing Expressions from Words – Subtraction* **Unit 49:** *Writing Expressions from Words – Addition and Subtraction* **Unit 49:** *Evaluating Numerical Expressions with Parentheses* **Unit 49:** *Identifying Expressions in Scenarios*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them.	**Unit 49:** *Writing Expressions from Words* **Unit 49:** *Interpreting Expressions*	**Unit 49:** *Writing Expressions from Words – Subtraction* **Unit 49:** *Writing Expressions from Words – Addition and Subtraction* **Unit 49:** *Evaluating Numerical Expressions with Parentheses* **Unit 49:** *Identifying Expressions in Scenarios*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
3. Formulate, represent, and use algorithms to add and subtract fractions with flexibility, accuracy, and efficiency.				
1.3a	Use equivalent fractions as a strategy to add and subtract fractions.			
	ii. Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions with like denominators.		**Unit 48:** *Adding Fractions with Unlike Denominators* **ISIP Math:** *Adding and Subtracting Fractions with Unlike Denominators*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

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Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
4. The concepts of multiplication and division can be applied to multiply and divide fractions.				
1.4c	Interpret the product *(a/b) × q* as a parts of a partition of *q* into *b* equal parts; equivalently, as the result of a sequence of operations *a × q ÷ b* . In general, (a/b) × (c/d) = ac/bd.	**Unit 48:** *Multiplying by Fractions Less Than One* **Unit 48:** *Multiplying by Fractions Less Than One with Improper Fractions*	**Unit 48:** *Multiplying by Fractions Less Than One* **Unit 48:** *Multiplying by Fractions Less Than One with Improper Fractions*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
1.4d	Find the area of a rectangle with fractional side lengths by tiling it with unit squares of the appropriate unit fraction side lengths, and show that the area is the same as would be found by multiplying the side lengths.	**Unit 50:** *Area of a Rectangle with Fractional Sides*	**Unit 50:** *Area of a Rectangle with Fractional Sides*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	i. Multiply fractional side lengths to find areas of rectangles, and represent fraction products as rectangular areas.	**Unit 50:** *Area of a Rectangle with Fractional Sides*	**Unit 50:** *Area of a Rectangle with Fractional Sides*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
1.4e	Interpret multiplication as scaling (resizing).	**Unit 48:** *Multiplying by Fractions Less Than One* **Unit 48:** *Multiplying by Fractions Less Than One with Improper Fractions*	**Unit 48:** *Multiplying by Fractions Less Than One* **Unit 48:** *Multiplying by Fractions Less Than One with Improper Fractions*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	i. Compare the size of a product to the size of one factor on the basis of the size of the other factor, without performing the indicated multiplication.	**Unit 48:** *Multiplying by Fractions Less Than One* **Unit 48:** *Multiplying by Fractions Less Than One with Improper Fractions*	**Unit 48:** *Multiplying by Fractions Less Than One* **Unit 48:** *Multiplying by Fractions Less Than One with Improper Fractions*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Apply the principle of fraction equivalence *a/b = (n × a)/(n × b)* to the effect of multiplying *a/b* by 1.	**Unit 48:** *Multiplying by Fractions Less Than One* **Unit 48:** *Multiplying by Fractions Less Than One with Improper Fractions*	**Unit 48:** *Multiplying by Fractions Less Than One* **Unit 48:** *Multiplying by Fractions Less Than One with Improper Fractions*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
Standard: 2. Patterns, Functions, and Algebraic Structures				
1. Number patterns are based on operations and relationships.				
2.1a	Generate two numerical patterns using given rules.	**Unit 51:** *Comparing Points on a Coordinate Plane*	**Unit 51:** *Comparing Points on a Coordinate Plane* **ISIP Math:** *Identifying and Plotting Ordered Pairs on the Coordinate Plane*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

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Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
2.1b	Identify apparent relationships between corresponding terms.	**Unit 51:** *Comparing Points on a Coordinate Plane*	**Unit 51:** *Comparing Points on a Coordinate Plane* **ISIP Math:** *Identifying and Plotting Ordered Pairs on the Coordinate Plane*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
2.1c	Form ordered pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs on a coordinate plane.	**Unit 51:** *Comparing Points on a Coordinate Plane*	**Unit 51:** *Comparing Points on a Coordinate Plane* **ISIP Math:** *Identifying and Plotting Ordered Pairs on the Coordinate Plane*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
2.1d	Explain informally relationships between corresponding terms in the patterns.	**Unit 51:** *Comparing Points on a Coordinate Plane*	**Unit 51:** *Comparing Points on a Coordinate Plane* **ISIP Math:** *Identifying and Plotting Ordered Pairs on the Coordinate Plane*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

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Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
Standard: 4. Shape, Dimension, and Geometric Relationships				
1. Properties of multiplication and addition provide the foundation for volume an attribute of solids.				
4.1a	Model and justify the formula for volume of rectangular prisms.		**ISIP Math:** *Quantifying Volume: Counting Same-Sized Units* **ISIP Math:** *Volume as an Attribute of Three-Dimensional Space* **ISIP Math:** *Calculating Volume in Multistep Word Problems* **ISIP Math:** *Integrating Fact Practice and Volume*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	i. Model the volume of a right rectangular prism with whole-number side lengths by packing it with unit cubes.		**ISIP Math:** *Quantifying Volume: Counting Same-Sized Units* **ISIP Math:** *Volume as an Attribute of Three-Dimensional Space* **ISIP Math:** *Calculating Volume in Multistep Word Problems* **ISIP Math:** *Integrating Fact Practice and Volume*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Show that the volume is the same as would be found by multiplying the edge lengths, equivalently by multiplying the height by the area of the base.		**ISIP Math:** *Quantifying Volume: Counting Same-Sized Units* **ISIP Math:** *Volume as an Attribute of Three-Dimensional Space* **ISIP Math:** *Calculating Volume in Multistep Word Problems* **ISIP Math:** *Integrating Fact Practice and Volume*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iii. Represent threefold whole-number products as volumes to represent the associative property of multiplication.		**ISIP Math:** *Quantifying Volume: Counting Same-Sized Units* **ISIP Math:** *Volume as an Attribute of Three-Dimensional Space* **ISIP Math:** *Calculating Volume in Multistep Word Problems* **ISIP Math:** *Integrating Fact Practice and Volume*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

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Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
4.1b	Find volume of rectangular prisms using a variety of methods and use these techniques to solve real world and mathematical problems.		**ISIP Math:** *Quantifying Volume: Counting Same-Sized Units* **ISIP Math:** *Volume as an Attribute of Three-Dimensional Space* **ISIP Math:** *Calculating Volume in Multistep Word Problems* **ISIP Math:** *Integrating Fact Practice and Volume*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	i. Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised units.		**ISIP Math:** *Quantifying Volume: Counting Same-Sized Units*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Apply the formulas $V = l \times w \times h$ and $V = b \times h$ for rectangular prisms to find volumes of right rectangular prisms with whole-number edge lengths.		**ISIP Math:** *Quantifying Volume: Counting Same-Sized Units* **ISIP Math:** *Volume as an Attribute of Three-Dimensional Space* **ISIP Math:** *Calculating Volume in Multistep Word Problems* **ISIP Math:** *Integrating Fact Practice and Volume*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iii. Use the additive nature of volume to find volumes of solid figures composed of two non-overlapping right rectangular prisms by adding the volumes of the non-overlapping parts.		**ISIP Math:** *Quantifying Volume: Counting Same-Sized Units* **ISIP Math:** *Volume as an Attribute of Three-Dimensional Space* **ISIP Math:** *Calculating Volume in Multistep Word Problems* **ISIP Math:** *Integrating Fact Practice and Volume*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
2. Geometric figures can be described by their attributes and specific locations in the plane.				
4.2a	Graph points on the coordinate plane to solve real-world and mathematical problems.	**Unit 51:** *Graph Points in a Coordinate Plane* **Unit 51:** *Lines on a Coordinate Plane*	**Unit 51:** *Graph Points in a Coordinate Plane* **Unit 51:** *Lines on a Coordinate Plane* **ISIP Math:** *Identifying and Plotting Ordered Pairs on the Coordinate Plane*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
4.2b	Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation.	**Unit 51:** *Graph Points in a Coordinate Plane* **Unit 51:** *Lines on a Coordinate Plane*	**Unit 51:** *Graph Points in a Coordinate Plane* **Unit 51:** *Lines on a Coordinate Plane* **ISIP Math:** *Identifying and Plotting Ordered Pairs on the Coordinate Plane*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

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Standards	Objectives	Istation Application	Istation Teacher Resources	MP Standards
4.2c	Classify two-dimensional figures into categories based on their properties.			
	i. Explain that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category.		**ISIP Math:** *Analyzing Properties of Two- and Three-Dimensional Figures* **ISIP Math:** *What's My Rule? Corresponding Sides of Similar Triangles* **ISIP Math:** *Triangles: Finding a Missing Angle Measurement*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Classify two-dimensional figures in a hierarchy based on properties.		**ISIP Math:** *Analyzing Properties of Two- and Three-Dimensional Figures*	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

End of Grade 5