

## Istation

Istation Math Curriculum Correlated to the Common Core State Standards Mathematics

## Grade K - Grade 5

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

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## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

K-12 Standards for Mathematical Practices (MP)
As stated in the Common Core State Standards for Mathematics, "The Standards for Mathematical Practice describe varieties of expertise that mathematics educators at all levels should seek to develop in their students." Each applicable Mathematical Practice standard is listed below the correlation with the corresponding code, MP1-8.

Mathematical Practice 1: Make sense of problems and persevere in solving them.
Mathematical Practice 2: Reason abstractly and quantitatively.
Mathematical Practice 3: Construct viable arguments and critique the reasoning of others.
Mathematical Practice 4: Model with mathematics.
Mathematical Practice 5: Use appropriate tools strategically.
Mathematical Practice 6: Attend to precision.
Mathematical Practice 7: Look for and make use of structure.
Mathematical Practice 8: Look for and express regularity in repeated reasoning.
The following legend outlines the Codes found next to each Digital Student Experience and related Teacher Resources.

| Code Legend |  |
| :---: | :--- |
| U | Unit |
| ISIP | Istation's Indicators of Progress |
| EM | Early Math |
| FP | Fact Practice |
| CR | Classroom Resource |
| PP | Parent Portal |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## Kindergarten

Counting and Cardinality
Know number names and the count sequence.

| K.CC. 1 |  |  |  |
| :---: | :---: | :---: | :---: |
| Count to 100 by ones and tens. |  |  |  |
| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| Code | Digital Student Experience | Code | Teacher Resources |
| U14 | Number Sense - "EZ with a Rock and Roll Beat" (1-100) | U14 | One Hundred Is a Lot |
| U14 | Number Sense - Identifying Numbers (1-100) | U14 | Skip Counting by Tens |
| U14 | Number Sense - Identify Missing Numbers (1-100) | U14 | Roll-Count-Cover |
| U14 | Number Sense - Number Sequence (1-100) | U21 | The Arrow Says (1-100) |
| U14 | Number Sense - "Hens by Tens" (1-100) | U23 | Decade Numbers |
| U14 | Number Sense - Count the Hen Amount (1-100) |  |  |
| U14 | Number Sense - Count to the Target Amount (1-100) |  |  |
| U14 | Number Sense - Choose the Correct Amount (1-100) |  |  |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## K.CC. 2

Count forward beginning from a given number within the known sequence (instead of having to begin at 1).

| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| :---: | :---: | :---: | :---: |
| Code | Digital Student Experience | Code | Teacher Resources |
| U4 | Number Sense - "EZ with a Rock and Roll Beat" (1-10) | U6 | Count with Me (1-20) |
| U4 | Number Sense - Identifying Numbers (1-10) | U8 | Counting Sticks (1-20) |
| U4 | Number Sense - Identify Missing Numbers (1-10) | U8 | Counting Objects (1-20) |
| U4 | Number Sense - Number Sequence (1-10) | U14 | One Hundred Is a Lot |
| U6 | Number Sense - "EZ with a Rock and Roll Beat" (1-20) | U14 | Skip Counting by Tens |
| U6 | Number Sense - Identifying Numbers (1-20) | U14 | Roll-Count-Cover |
| U6 | Number Sense - Identify Missing Numbers (1-20) | U18 | Counting Memory |
| U6 | Number Sense - Number Sequence (1-20) | U21 | The Arrow Says (1-100) |
| U7 | Number Sense - "EZ with a Rock and Roll Beat" (1-30) | U23 | Decade Numbers |
| U7 | Number Sense - Identifying Numbers (1-30) | ISIP EM | Set Stories |
| U7 | Number Sense - Identify Missing Numbers (1-30) | ISIP EM | Ten Frame Puzzles (1-20) |
| U7 | Number Sense - Number Sequence (1-30) | ISIP EM | Total Amount in a Scattered Group |
| U8 | Number Sense - "EZ with a Rock and Roll Beat" (1-50) | ISIP EM | Understanding Ordinal Numbers |
| U8 | Number Sense - Identifying Numbers (1-50) |  |  |
| U8 | Number Sense - Identify Missing Numbers (1-50) |  |  |
| U8 | Number Sense - Number Sequence (1-50) |  |  |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## K.CC. 2

Count forward beginning from a given number within the known sequence (instead of having to begin at 1).
MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :--- | :--- |
| U14 | Number Sense - "EZ with a Rock and Roll Beat" (1-100) |  |  |
| U14 | Number Sense - Identifying Numbers (1-100) |  |  |
| U14 | Number Sense - Identify Missing Numbers (1-100) |  |  |
| U14 | Number Sense - Number Sequence (1-100) |  |  |

## K.CC. 3

Write numbers from 0-20. Represent a number of objects with a written numeral 0-20 (with 0 representing a count of no objects).
MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U6 | Number Sense - "EZ with a Rock and Roll Beat" (1-20) | U6 | Domino Dot Memory (1-10) |
| U6 | Number Sense - Identifying Numbers (1-20) | U7 | Counting a Scattered Static Group (1-10) |
| U6 | Number Sense - Identify Missing Numbers (1-20) | U7 | Calendar Counting (1-30) |
| U6 | Number Sense - Number Sequence (1-20) | U8 | Counting Sticks (1-20) |
| U7 | Number Sense - "EZ with a Rock and Roll Beat" (1-30) | U8 | Counting Objects (1-20) |
| U7 | Number Sense - Identifying Numbers (1-30) | U10 | Park the Car and Write (1-20) |
| U7 | Number Sense - Identify Missing Numbers (1-30) | U11 | Writing Numbers Everywhere (5-10) |
| U7 | Number Sense - Number Sequence (1-30) | U11 | Writing Numbers (10-20) |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## K.CC. 3

Write numbers from 0-20. Represent a number of objects with a written numeral 0-20 (with 0 representing a count of no objects).
MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :--- | :--- |
| U8 | Number Sense - "EZ with a Rock and Roll Beat" (1-50) | U18 | Counting Memory |
| U8 | Number Sense - Identifying Numbers (1-50) | ISIP EM | Set Stories |
| U8 | Number Sense - Identify Missing Numbers (1-50) | ISIP EM | Total Amount in a Scattered Group |
| U8 | Number Sense - Number Sequence (1-50) | ISIP EM | Ten Frame Puzzles (1-20) |
| U11 | Number Sense - "Writing Our Numbers" | ISIP EM | Multiple Representations of Numbers (1-10) |
| U11 | Number Sense - Writing Numbers Everywhere (1-10) |  |  |
| U15 | Number Sense - "Pattern of the Count" (1-50) |  |  |
| U15 | Number Sense - Place Value Rows (1-50) |  |  |
| U15 | Number Sense - Number Puzzle (1-50) |  |  |
| U19 | Number Sense - Write Numbers to Represent Numbers <br> (0-20) |  |  |
| Number Sense - "Pattern of the Count" (1-20) |  |  |  |
| U19 | Number Sense - Place Value Columns (by 1s and 10s to <br> $50)$ |  |  |
| Number Sense - Number Puzzle (by 1s and 10s to 50) |  |  |  |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

Count to tell the number of objects.

## K.CC. 4

Understand the relationship between numbers and quantities; connect counting to cardinality.
When counting objects, say the number names in the standard order, pairing each object with one and only one number name and each number name with one and only one object.
a. Understand that the last number name said tells the number of objects counted. The number of objects is the same regardless of their arrangement or the order in which they were counted.
b. Understand that each successive number name refers to a quantity that is one larger.

| MP 1, 2, 3, 4, 5, 6, 7, 8 | Teacher Resources |  |  |
| :---: | :--- | :---: | :--- |
| Code | Digital Student Experience | Code | U6 |
| U6 | Number Sense - "Counting Cattle" (1-10) | Count with Me (1-20) |  |
| U6 | Number Sense - Counting in a Line (1-10) | U8 | Counting Sticks (1-20) |
| U6 | Number Sense - Counting a Static Scattered Group <br> $(1-10)$ | Counting Objects (1-20) |  |
| U6 | Number Sense - Remember the Counted Amount (1-10) | U10 | Park the Car and Write (1-20) |
| U7 | Number Sense - "Counting Cattle" (1-10) | U11 | Writing Numbers Everywhere (5-10) |
| U7 | Number Sense - Counting Fingers (1-10) | U11 | Writing Numbers (10-20) |
| U7 | Number Sense - Choose the Correct Amount (1-10) | U18 | Counting Memory |
| U7 | Number Sense - Counting a Static Scattered Group <br> $(1-10)$ | ISIP EM | Set Stories |
| U8 | Number Sense - "Counting Cattle" (1-20) | ISIP EM | Ten Frame Puzzles (1-20) |
| U8 | Number Sense - Counting in a Line (1-20) | ISIP EM | Subitizing to Problem Solve |
| U8 | Number Sense - Counting in an Array (1-20) | ISIP EM | Total Amount in a Scattered Group |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## K.CC. 4

Understand the relationship between numbers and quantities; connect counting to cardinality.
When counting objects, say the number names in the standard order, pairing each object with one and only one number name and each number name with one and only one object.
a. Understand that the last number name said tells the number of objects counted. The number of objects is the same regardless of their arrangement or the order in which they were counted.
b. Understand that each successive number name refers to a quantity that is one larger.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :---: | :---: | :---: |
| U8 | Number Sense - Counting a Scattered Static Group $(1-20)$ |  |  |
| U10 | Number Sense - "Counting Cattle" (1-20) |  |  |
| U10 | Number Sense - Choose the Correct Amount (1-20) |  |  |
| U10 | Number Sense - Remember the Counted Amount (1-20) |  |  |
| U10 | Number Sense - Counting an Array |  |  |
| U10 | Number Sense - Choose the Correct Amount (1-20) |  |  |

## K.CC. 5

Count to answer "how many?" questions about as many as 20 things arranged in a line, a rectangular array, or a circle, or as many as 10 things in a scattered configuration; given a number from 1-20, count out that many objects.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :---: | :---: | :---: |
| U6 | Number Sense - "Counting Cattle" (1-10) | U6 | Domino Dot Memory (1-10) |
| U6 | Number Sense - Counting in a Line (1-10) | U7 | Counting a Scattered Static Group (1-10) |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## K.CC. 5

Count to answer "how many?" questions about as many as 20 things arranged in a line, a rectangular array, or a circle, or as many as 10 things in a scattered configuration; given a number from 1-20, count out that many objects.

| MP 1, 2, 3, 4, 5, 6, 7, 8 | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| Code | U8 | Counting Sticks (1-20) |  |
| U6 | Number Sense - Counting a Static Scattered Group <br> $(1-10)$ | U8 | Counting Objects (1-20) |
| U6 | Number Sense - Remember the Counted Amount (1-10) | U18 | Counting Memory |
| U7 | Number Sense - "Counting Cattle" (1-10) | ISIP EM | Set Stories |
| U7 | Number Sense - Counting Fingers (1-10) | ISIP EM | Ten Frame Puzzles (1-20) |
| U7 | Number Sense - Choose the Correct Amount (1-10) | ISIP EM | Total Amount in a Scattered Group |
| U7 | Number Sense - Counting a Static Scattered Group <br> (1-10) | ISIP EM | Multiple Representations of Numbers (1-10) |
| U8 | Number Sense - "Counting Cattle" (1-20) | ISIP EM | Subitizing to Problem Solve |
| U8 | Number Sense - Counting in a Line (1-20) |  |  |
| U8 | Number Sense - Counting in an Array (1-20) |  |  |
| U8 | Number Sense - Counting a Scattered Static Group <br> $(1-20)$ |  |  |
| U10 | Number Sense - "Counting Cattle" (1-20) |  |  |
| U10 | Number Sense - Choose the Correct Amount (1-20) |  |  |
| U10 | Number Sense - Remember the Counted Amount (1-20) |  |  |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## Compare numbers.

## K.CC. 6

Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group, e.g., by using matching and counting strategies

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :---: | :---: | :---: |
|  |  | U6 | Less/More/Equal Sets of Concrete Objects |
|  |  | ISIP EM | Finding One More or One Less (1-20) |
|  |  | ISIP EM | Comparing Groups of Objects (1-20) |
|  |  | ISIP EM | Multiple Representations of Numbers (1-10) |


| K.CC.7 |  |  |  |
| :--- | :---: | :--- | :--- |
| Compare two numbers between 1 and 10 presented as written numerals. |  |  |  |
| MP 1, 2, 3, 4, 5, 6, 7, 8 | Code |  |  |
| Code | Digital Student Experience | U6 | Less/More/Equal Sets of Concrete Objects |
|  |  | ISIP EM | Finding One More or One Less (1-20) |
|  |  | ISIP EM | Comparing Groups of Objects (1-20) |
|  |  | ISIP EM | Multiple Representations of Numbers (1-10) |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

Operations and Algebraic Thinking
Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.

| K.OA. 1 |  |  |  |
| :---: | :--- | :---: | :--- | :--- |
| Represent addition and subtraction with objects, fingers, mental images, drawings, sounds (e.g., claps), acting out situations, verbal <br> explanations, expressions, or equations. |  |  |  |
| MP 1, 2, 3, 4, 5, 6, 7, 8 | Code | Teacher Resources |  |
| Code | Digital Student Experience | U7 | Figuring Out Fives |
| U9 | Computations and Algebraic Thinking - <br> "Part Part Whole in New Orleans" (1-10) | U8 | Parts and Wholes |
| U9 | Computations and Algebraic Thinking - <br> Part Part Whole Addition within 10 | U9 | Roll to Find the Whole |
| U10 | Computations and Algebraic Thinking - <br> "Part Part Whole in New Orleans" (1-10) | U10 | Dogs and Cats on Mats (up to 10) |
| U10 | Computations and Algebraic Thinking - <br> Part Part Whole Addition Stories | U12 | Ten or Not Ten |
| U12 | Computations and Algebraic Thinking - <br> "Part Part Whole in New Orleans" (1-10) | U13 | Whole in the Hand |
| U12 | Computations and Algebraic Thinking - <br> Making Ten Using Tens Frames | U18 | Decomposing House with Pictures |
| U12 | Computations and Algebraic Thinking - <br> Identifying Addends Using Tens Frames | U18 | Decomposing House |
| U13 | Computations and Algebraic Thinking - <br> "Chicago Pizza Blues" (within 10) | Relative Magnitude with Part Part Whole |  |
| U13 | Computations and Algebraic Thinking - <br> Whole Part Part Subtraction within 10 |  |  |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## K.OA. 1

Represent addition and subtraction with objects, fingers, mental images, drawings, sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations.

| MP 1, 2, 3, 4, 5, 6, 7, 8 | Code | Teacher Resources |  |
| :---: | :--- | :---: | :--- |
| Code | Digital Student Experience | U20 | Start, Change, Result |
| U14 | Computations and Algebraic Thinking - <br> "Chicago Pizza Blues" (within 10) | U20 | Adding with Addend Cards |
| U14 | Computations and Algebraic Thinking - <br> Whole Part Part Subtraction Stories (within 10) | U22 | Beading the Difference |
| U18 | Number Sense - Decompose Numbers <br> Less Than or Equal to Ten | ISIP EM | Subtraction within Ten |
|  |  | ISIP EM | Addition/Subtraction Stories |
|  |  | ISIP EM | Count Back to Subtract |
|  |  | ISIP EM | Ten Frame Addition |

## K.OA. 2

Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem.
MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :---: |
| U9 | Computations and Algebraic Thinking - <br> "Part Part Whole in New Orleans" (1-10) | U7 | Figuring Out Fives |
| U9 | Computations and Algebraic Thinking - <br> Part Part Whole Addition within 10 | U8 | Parts and Wholes |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## K.OA. 2

Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem.
MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U9 | Computations and Algebraic Thinking - <br> "Part Part Whole in New Orleans" (1-10) | U10 | Dogs and Cats on Mats (up to 10) |
| U9 | Computations and Algebraic Thinking - <br> Part Part Whole Addition within 10 | U12 | Ten or Not Ten |
| U10 | Computations and Algebraic Thinking - <br> "Part Part Whole in New Orleans" (1-10) | U18 | Decomposing House with Pictures |
| U10 | Computations and Algebraic Thinking - <br> Part Part Whole Addition Stories | U18 | Decomposing House |
| U12 | Computations and Algebraic Thinking - <br> "Part Part Whole in New Orleans" (1-10) | U19 | Relative Magnitude with Part Part Whole |
| U12 | Computations and Algebraic Thinking - <br> Making Ten Using Tens Frames | Start, Change, Result |  |
| U12 | Computations and Algebraic Thinking - <br> Identifying Addends Using Tens Frames | U20 | Adding with Addend Cards |
| U13 | Computations and Algebraic Thinking - <br> "Chicago Pizza Blues" (within 10) | ISIP EM | Subtraction within Ten |
| U13 | Computations and Algebraic Thinking - <br> Whole Part Part Subtraction (within 10) | ISIP EM | Addition/Subtraction Stories |
| U14 | Computations and Algebraic Thinking - <br> "Chicago Pizza Blues" (within 10) | ISIP EM | Count Back to Subtract |
| U14 | Computations and Algebraic Thinking - <br> Whole Part Part Subtraction Stories (within 10) | ISIP EM | Ten Frame Addition |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## K.OA. 2

Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem.

$$
\text { MP } 1,2,3,4,5,6,7,8
$$

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :---: |
| U18 | Number Sense - Decompose Numbers <br> Less Than or Equal to Ten |  |  |

## K.OA. 3

Decompose numbers less than or equal to 10 into pairs in more than one way (e.g., by using objects or drawings), and record each decomposition with a drawing or equation (e.g., $5=2+3$ and $5=4+1$ ).

| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| :---: | :---: | :---: | :---: |
| Code | Digital Student Experience | Code | Teacher Resources |
| U9 | Computations and Algebraic Thinking - <br> "Part Part Whole in New Orleans" (1-10) | U7 | Figuring Out Fives |
| U9 | Computations and Algebraic Thinking - Addition Stories | U8 | Parts and Wholes |
| U10 | Computations and Algebraic Thinking "Part Part Whole in New Orleans" (1-10) | U9 | Roll to Find the Whole |
| U10 | Computations and Algebraic Thinking Part Part Whole Addition Stories | U10 | Dogs and Cats on Mats (up to 10) |
| U12 | Computations and Algebraic Thinking "Part Part Whole in New Orleans" (1-10) | U12 | Ten or Not Ten |
| U12 | Computations and Algebraic Thinking Making Ten Using Tens Frames | U13 | Whole in the Hand |
| U12 | Computations and Algebraic Thinking Identifying Addends Using Tens Frames | U18 | Decomposing House with Pictures |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## K.OA. 3

Decompose numbers less than or equal to 10 into pairs in more than one way (e.g., by using objects or drawings), and record each decomposition with a drawing or equation (e.g., $5=2+3$ and $5=4+1$ ).

| MP 1, 2, 3, 4, 5, 6, 7, 8 | Code | Teacher Resources |  |
| :---: | :--- | :---: | :--- |
| Code | Digital Student Experience | U18 | Decomposing House |
| U13 | Computations and Algebraic Thinking - <br> "Part Part Whole in New Orleans" (1-10) | U19 | Relative Magnitude with Part Part Whole |
| U13 | Computations and Algebraic Thinking - <br> "Part Part Whole in New Orleans" (1-10) | U20 | Start, Change, Result |
| U14 | Computations and Algebraic Thinking - <br> "Chicago Pizza Blues" (within 10) | Computations and Algebraic Thinking - <br> Whole Part Part Subtraction Stories (within 10) | Adding with Addend Cards |
| U18 | Number Sense - Decompose Numbers Less Than or <br> Equal to Ten | U22 | Beading the Difference |

## K.OA. 4

For any number from 1 to 9 , find the number that makes 10 when added to the given number, e.g., by using objects or drawings, and record the answer with a drawing or equation.

| MP 1, 2, 3, 4, 5, 6, 7, 8 | Code | Teacher Resources |  |
| :---: | :--- | :---: | :---: |
| Code | Digital Student Experience | U7 | Figuring Out Fives |
| U9 | Computations and Algebraic Thinking - "Part Part Whole <br> in New Orleans" (1-10) | U8 | Parts and Wholes |
| U9 | Computations and Algebraic Thinking - Addition Stories |  |  |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## K.OA. 4

For any number from 1 to 9 , find the number that makes 10 when added to the given number, e.g., by using objects or drawings, and record the answer with a drawing or equation.

| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| :---: | :---: | :---: | :---: |
| Code | Digital Student Experience | Code | Teacher Resources |
| U10 | Computations and Algebraic Thinking "Part Part Whole in New Orleans" (1-10) | U9 | Roll to Find the Whole |
| U10 | Computations and Algebraic Thinking Part Part Whole Addition Stories | U10 | Dogs and Cats on Mats (up to 10) |
| U12 | Computations and Algebraic Thinking "Part Part Whole in New Orleans" (1-10) | U12 | Ten or Not Ten |
| U12 | Computations and Algebraic Thinking Making Ten Using Tens Frames | U13 | Whole in the Hand |
| U12 | Computations and Algebraic Thinking Identifying Addends Using Tens Frames | U18 | Decomposing House with Pictures |
| U13 | Computations and Algebraic Thinking "Chicago Pizza Blues" (within 10) | U18 | Decomposing House |
| U13 | Computations and Algebraic Thinking - Subtraction within 10 | U19 | Relative Magnitude with Part Part Whole |
| U14 | Computations and Algebraic Thinking "Chicago Pizza Blues" (within 10) | U20 | Start, Change, Result |
| U14 | Computations and Algebraic Thinking Whole Part Part Subtraction Stories (within 10) | U20 | Adding with Addend Cards |
| U18 | Number Sense - Decompose Numbers Less Than or Equal to Ten | U22 | Beading the Difference |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## Number and Operations in Base Ten

Work with numbers 11-19 to gain foundations for place value.

| K.NBT.1 |  |  |  |
| :--- | :---: | :--- | :--- |
| Compose and decompose numbers from 11 to 19 into ten ones and some further ones (e.g., by using objects or drawings), and record each <br> composition or decomposition with a drawing or equation (such as $18=10+8$ ); understand that these numbers are composed of ten ones and <br> one, two, three, four, five, six, seven, eight, or nine ones. |  |  |  |
| MP 1, 2, 3, 4, 5, 6, 7, 8 | Code |  |  |
| Code | Digital Student Experience |  |  |
|  |  | U18 | Decomposing House with Pictures |
|  | U18 | Decomposing House |  |
|  | U15 | Digit Deal (up to 50) |  |

## Measurement and Data

Describe and compare measurable attributes.

| K.MD.1 |  |  |  |
| :---: | :---: | :---: | :--- |
| Describe measurable attributes of objects, such as lengths or weight. Describe several measurable attributes of a single object. |  |  |  |
| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| Code | Digital Student Experience | Code | Teacher Resources |
| U10 | Measurement and Data Analysis - Directly Comparing <br> Length | U10 | Directly Comparing Length |
| U10 | Measurement and Data Analysis - Directly Comparing <br> Weight | U10 | Directly Comparing Weight |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## K.MD. 1

Describe measurable attributes of objects, such as lengths or weight. Describe several measurable attributes of a single object.

$$
\text { MP } 1,2,3,4,5,6,7,8
$$

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :---: |
| U15 | Measurement and Data Analysis - Directly Comparing <br> Height | U15 | Directly Comparing Height |
| U15 | Measurement and Data Analysis - Directly Compare <br> Capacity of Two Containers | U15 | Which Holds More? Which Holds Less? |

## K.MD. 2

Directly compare two objects with a measurable attribute in common to see which object has "more of" or "less of" the attribute and describe the difference. For example, directly compare the heights of two children and describe one child as taller/shorter

| MP 1, 2, 3, 4, 5, 6, 7, 8 | Code | Digital Student Experience | Teacher Resources |
| :---: | :--- | :---: | :--- |
| Code | U10 | Directly Comparing Length |  |
| U10 | Measurement and Data Analysis - Comparing Objects by <br> Length | U10 | Directly Comparing Weight |
| U10 | Measurement and Data Analysis - Comparing Objects by <br> Weight | U15 | Directly Comparing Height |
| U15 | Measurement and Data Analysis - Comparing Objects by <br> Height | W15 | Which Holds More? Which Holds Less? |
| U15 | Measurement and Data Analysis - Comparing Objects by <br> Capacity |  |  |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

Classify objects and count the number of objects in each category.

| K.MD. 3 |  |  |  |
| :--- | :---: | :--- | :--- |
| Classify objects into given categories; count the numbers of objects in each category <br> be less than or equal to 10.) |  |  |  |
| MP 1, 2, 3, 4, 5, 6, 7, 8 the categories by count. (Limit category counts to |  |  |  |
| Code | Digital Student Experience |  |  |
|  |  | Code |  |
|  |  | U12 | Classify and Compare |

## Geometry and Measurement

Identify and describe shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres).

| K.G.2 |  |  |  |
| :---: | :--- | :---: | :--- |
| Correctly name shapes regardless of their orientations or overall size. |  |  |  |
| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| Code | Digital Student Experience | Code |  |
| U1 | Geometry - Identify Circles | U1 | Identifying Two-Dimensional Shapes |
| U1 | Geometry - Identify Squares | U3 | We're Going on a Shape Hunt |
| U3 | Geometry - Identify Triangles | U9 | Considering Sizes of Shapes |
| U9 | Geometry - Identifying Shapes Regardless of Orientation | U14 | Odd One Out |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## K.G. 3

Identify shapes as two-dimensional (lying in a plane, "flat") or three-dimensional ("solid").
MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :---: | :---: | :---: |
| U14 | Geometry - Identify Three-Dimensional Shapes | U14 | Shape Four-in-a-Row |

## Analyze, compare, create, and compose shapes.

| K.G. 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Analyze and compare two- and three-dimensional shapes, in different sizes and orientations, using informal language to describe their similarities, differences, parts (e.g., number of sides and vertices/"corners"), and other attributes (e.g., having sides of equal length). |  |  |  |
| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| Code | Digital Student Experience | Code | Teacher Resources |
| U1 | Geometry - Identify Circles | U1 | Identifying Two-Dimensional Shapes |
| U1 | Geometry - Identify Squares | U3 | We're Going on a Shape Hunt |
| U3 | Geometry - Identify Triangles | U9 | Considering Sizes of Shapes |
| U9 | Geometry - Identify Shapes Regardless of Orientation | U9 | Mighty Shape Match |
| U9 | Geometry - Classify and Count by Attribute | U14 | Shape Four-in-a-Row |
| U14 | Geometry - Identify Three-Dimensional Shapes |  |  |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## Grade 1

Operations and Algebraic Thinking
Represent and solve problems involving addition and subtraction.

| 1.OA.1 |
| :---: | :--- | :---: | :--- |
| Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and <br> comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent <br> the problem.    <br> MP 1, 2, 3, 4, 5, 6, 7, 8 Code   <br> Code Digital Student Experience U16 Beacher Resources <br> U16 Computations and Algebraic Thinking - Determine <br> Missing Addend Uiddle-End  <br> U19 Computations and Algebraic Thinking - "Part Part Whole <br> in New Orleans" (1-20) U18 Decomposing House <br> U19 Computations and Algebraic Thinking - Part Part Whole <br> Using Ovals U19 Decomposing House with Pictures <br> U19 Computations and Algebraic Thinking - Part Part Whole <br> Using Ten Frames U22 Beading the Difference <br> U20 Computations and Algebraic Thinking - "Part Part Whole <br> in New Orleans" (1-20) U24 Mystery in the Middle <br> U20 Computations and Algebraic Thinking - Addition Stories <br> (1-20) Horizontal Equations U24 Start, Change, Result (within 20) <br> U20 Computations and Algebraic Thinking - Addition Stories <br> (1-20) Vertical Equations   <br> U22 Computations and Algebraic Thinking - Whole Part Part <br> "Chicago Pizza Blues" (within 20)   |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 1.OA. 1

Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.

```
MP 1, 2, 3, 4, 5, 6, 7, }
```

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :--- | :--- |
| U22 | Computations and Algebraic Thinking - Whole Part Part <br> (within 20) |  |  |
| U24 | Computations and Algebraic Thinking - Subtraction <br> Stories (within 20) |  |  |
| U24 | Computations and Algebraic Thinking - Determine the <br> Unknown Whole Numbers in Subtraction Sentences |  |  |

### 1.0A. 2

Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.

| MP 1, 2, 3, 4, 5, 6, 7, 8 | Code | Teacher Resources |  |
| :---: | :--- | :---: | :--- |
| Code | U16 Student Experience | Beginning-Middle-End |  |
| U16 | Computations and Algebraic Thinking - Determine the <br> Unknown Whole Numbers in Addition Sentences | U22 | Beading the Difference |
| U20 | Computations and Algebraic Thinking - <br> Properties of Addition - Associative Property | U22 | Mystery in the Middle |
|  |  | ISIP EM | Associative Property of Addition |
|  |  | ISIP EM | Commutative Property of Addition |
|  |  |  |  |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## Understand and apply properties of operations and the relationship between addition and subtraction.

### 1.0A. 3

Apply properties of operations as strategies to add and subtract. Examples: If $8+3=11$ is known, then $3+8=11$ is also known. (Commutative property of addition.) To add $2+6+4$, the second two numbers can be added to make a ten, so $2+6+4=2+10=12$. (Associative property of addition.)

| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| :---: | :--- | :---: | :--- |
| Code | Digital Student Experience | Code | Teacher Resources |
| U16 | Computations and Algebraic Thinking - Determine the <br> Unknown Whole Number in Addition Sentences | U16 | Beginning-Middle-End |
| U20 | Computations and Algebraic Thinking - "The Math Whiz" | U20 | Doubles Facts |
| U20 | Computations and Algebraic Thinking - Doubles Strategy | U20 | (Properties of) Operations - Turn Around Addition |
| U20 | Computations and Algebraic Thinking - Commutative <br> Property of Addition | U20 | (Properties of) Operations - Grouping Groceries |
| U20 | Computations and Algebraic Thinking - Associative <br> Property of Addition | U20 | (Properties of) Operations - Identity Property Go Fish! |
| U20 | Computations and Algebraic Thinking - Identity Property <br> of Addition | ISIP EM | Counting on Cards |
| U24 | Computations and Algebraic Thinking - Determine the <br> Unknown Whole Numbers in Subtraction Sentences | ISIP EM | Fact Family Dominoes |
|  |  | ISIP EM | Associative Property of Addition |
|  | ISIP EM | Commutative Property of Addition |  |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

| 1.OA.4 |  |  |  |
| :---: | :--- | :---: | :--- | :--- |
| Understand subtraction as an unknown-addend problem. For example, subtract $10-8$ by finding the number that makes 10 when added to 8. |  |  |  |
| MP 1, 2, 3, 4, 5, 6, 7, 8 | Code | Teacher Resources |  |
| Code | Digital Student Experience | U18 | Decomposing House |
| U22 | Computations and Algebraic Thinking - Whole Part Part <br> "Chicago Pizza Blues" (within 20) | U19 | Decomposing House with Pictures |
| U22 | Computations and Algebraic Thinking - Whole Part Part <br> (within 20) | U22 | Beading the Difference |
| U24 | Computations and Algebraic Thinking - Subtraction <br> Stories (within 20) | U22 | Mystery in the Middle |
| U24 | Computations and Algebraic Thinking - Determine the <br> Unknown Whole Numbers in Subtraction Sentences | U24 | Start, Change, Result! (within 20) |
|  |  | ISIP EM | Subtraction Stories |
|  | ISIP EM | Fact Family Dominoes |  |

Add and subtract within 20.

| 1.OA. 5 |  |  |  |
| :---: | :---: | :---: | :---: |
| Relate counting to addition and subtraction (e.g., by counting on 2 to add 2 ). |  |  |  |
| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| Code | Digital Student Experience | Code | Teacher Resources |
|  |  | U22 | Beading the Difference |
|  |  | U22 | Mystery in the Middle |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 1.OA. 5

Relate counting to addition and subtraction (e.g., by counting on 2 to add 2 ).
MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :---: | :---: | :---: |
|  |  | U24 | Start, Change, Result! (within 20) |

### 1.0A. 6

Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. Use strategies such as counting on; making ten (e.g., 8 $+6=8+2+4=10+4=14$ ); decomposing a number leading to a ten (e.g., $13-4=13-3-1=10-1=9$ ); using the relationship between addition and subtraction (e.g., knowing that $8+4=12$, one knows $12-8=4$ ); and creating equivalent but easier or known sums (e.g., adding 6 +7 by creating the known equivalent $6+6+1=12+1=13$ ).

| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| :---: | :--- | :---: | :--- |
| Code | Digital Student Experience | Code | Teacher Resources |
| U10 | Computations and Algebraic Thinking - "Part Part Whole <br> in New Orleans" (1-20) | U 10 | Dogs and Cats on Mats (up to Ten) |
| U10 | Computations and Algebraic Thinking - Addition Stories | U 12 | Ten or Not Ten |
| U12 | Computations and Algebraic Thinking - Identifying <br> Addends using Tens Frames | U 13 | Whole in the Hand |
| U20 | Computations and Algebraic Thinking - "Part Part Whole <br> in New Orleans" (1-20) | U 20 | (Properties of) Operations - Turn Around Addition |
| U20 | Computations and Algebraic Thinking - Addition Stories <br> (horizontal orientation) | U 20 | (Properties of) Operations - Grouping Groceries |
| U20 | Computations and Algebraic Thinking - Addition Stories <br> (vertical orientation) | U 20 | (Properties of) Operations - Identity Property Go Fish! |
| U20 | Computations and Algebraic Thinking - "The Math Whiz" | U20 | Doubles Facts |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

| 1.OA. 6 |  |  |  |
| :---: | :---: | :---: | :---: |
| Add and subtract within 20 , demonstrating fluency for addition and subtraction within 10. Use strategies such as counting on; making ten (e.g., 8 $+6=8+2+4=10+4=14$ ); decomposing a number leading to a ten (e.g., $13-4=13-3-1=10-1=9$ ); using the relationship between addition and subtraction (e.g., knowing that $8+4=12$, one knows $12-8=4$ ); and creating equivalent but easier or known sums (e.g., adding 6 +7 by creating the known equivalent $6+6+1=12+1=13$ ). |  |  |  |
| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| Code | Digital Student Experience | Code | Teacher Resources |
| U20 | Computations and Algebraic Thinking - Fact Strategies | FP | Addition Fast Track |
| U20 | Computations and Algebraic Thinking - Commutative Property | FP | Sticky Sums |
| U20 | Computations and Algebraic Thinking - Associative Property | FP | Write, Tally, Draw |
| U20 | Computations and Algebraic Thinking - Identity Property | FP | Shake It, Make It, Solve It (Addition) |
| U10 | Computations and Algebraic Thinking - "Part Part Whole in New Orleans" (1-20) | FP | Wipe Out |
| U10 | Computations and Algebraic Thinking - Addition Stories | ISIP EM | Building Sums to Ten |
|  |  | ISIP EM | Place Value of Tens and One |
|  |  | ISIP EM | Fact Family Dominoes |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## Work with addition and subtraction equations.

### 1.0A. 8

Determine the unknown whole number in an addition or subtraction equation relating three whole numbers. For example, determine the unknown number that makes the equation true in each of the equations $8+?=11 ; 5={ }_{-}-3 ; 6+6=$.

## MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U16 | Computations and Algebraic Thinking - Determine the <br> Unknown Whole Number in Addition Sentences | U16 | Beginning-Middle-End |
|  |  | U24 | Mystery in the Middle |

## Number and Operations in Base Ten

## Extend the counting sequence.

## 1.NBT. 1

Count to 120, starting at any number less than 120. In this range, read and write numerals and represent a number of objects with a written numeral.

| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| :---: | :--- | :---: | :--- |
| Code | Digital Student Experience | Code | Teacher Resources |
| U17 | Number Sense - "Pattern of the Count" Count by Ones to <br> 100 | U 14 | One Hundred Is a Lot |
| U17 | Number Sense - Place Value Rows (1-100) | U 14 | One Hundred Twenty Is Plenty! |
| U17 | Number Sense - Number Puzzle (1-100) | U 17 | Digit Deal (1-100) |
| U21 | Number Sense - "Pattern of the Count" Count by Ones <br> and Tens to 100 | U 18 | Mixed-Up, Fixed-Up |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 1.NBT. 1

Count to 120, starting at any number less than 120. In this range, read and write numerals and represent a number of objects with a written numeral.

| MP 1, 2, 3, 4, 5, 6, 7, 8 | Code | Teacher Resources |  |
| :---: | :---: | :---: | :--- |
| Code | Digital Student Experience | U21 | The Arrow Says (1-100) |
| U21 | Number Sense - Place Value Columns (1-100) | U23 | Decade Numbers |
| U21 | Number Sense - Number Puzzle (1-100) |  |  |

## Understand place value.

## 1.NBT. 2

Understand that the two digits of a two-digit number represent amounts of tens and ones. Understand the following as special cases:
a. 10 can be thought of as a bundle of ten ones - called a "ten."
b. The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones.
c. The numbers, $10,20,30,40,50,60,70,80,90$ refer to one, two, three, four, five, six, seven, eight, or nine tens (and 0 ones).

| MP 1, 2, 3, 4, 5, 6, 7, 8 | Code | Teacher Resources |  |
| :---: | :--- | :---: | :--- |
| Code | Number Sense - Decade Numbers: Free Play Number <br> Puzzle | U14 | Roll-Count-Cover |
| U23 | Number Sense - Decade Numbers: Number Puzzle | U15 | Digit Deal (up to 50) |
| U23 |  | U17 | Digit Deal (up to 100) |
|  |  | U23 | Decade Numbers |
|  |  | ISIP EM | Base Ten Block Basics |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 1.NBT. 2

Understand that the two digits of a two-digit number represent amounts of tens and ones. Understand the following as special cases:
a. 10 can be thought of as a bundle of ten ones - called a "ten."
b. The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones.
c. The numbers, $10,20,30,40,50,60,70,80,90$ refer to one, two, three, four, five, six, seven, eight, or nine tens (and 0 ones).

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :---: | :---: | :---: |
|  |  | ISIP EM | Matching Numerals and Base Ten Blocks |
|  |  | ISIP EM | Base Ten Block Comparison Game |

## 1.NBT. 3

Compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols $>,=$, and <.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :--- | :--- | :--- | :--- |
|  |  | ISIP EM | Base Ten Block Basics |
|  |  | ISIP EM | Matching Numerals and Base Ten Blocks |
|  |  | ISIP EM | Base Ten Block Comparison Game |
|  |  | ISIP EM | Base Ten Block Battle |
|  |  | ISIP EM | Graphing Stories - Determining Most and Least |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## Use place value understanding and properties of operations to add and subtract.

## 1.NBT. 4

Add within 100, including adding a two-digit number and a One-Digit number, and adding a two-digit number and a multiple of 10 , 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 and explain the reasoning used. Understand that in adding two-digit numbers, one adds tens and tens, ones and ones; and sometimes it is necessary to compose a ten.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U20 | Computations and Algebraic Thinking - "The Math Whiz" | U20 | Doubles Facts |
| U20 | Computations and Algebraic Thinking - Fact Strategies | U20 | (Properties of) Operations - Turn Around Addition |
| U20 | Computations and Algebraic Thinking - Commutative <br> Property | U20 | (Properties of) Operations - Grouping Groceries |
| U20 | Computations and Algebraic Thinking - Associative <br> Property | U20 | (Properties of) Operations - Identity Property Go Fish! |
| U20 | Computations and Algebraic Thinking - Identity Property | U24 | Start, Change, Result! (within 20) |
|  |  | FP | Addition Fast Track |
|  |  | FP | Subtraction Fast Track |
|  |  | FP | Sticky Sums |
|  |  | FP | Write, Tally, Draw |
|  |  | FP | Shake It, Make It, Solve It (Addition) |
|  | ISIP EM | Building Sums to Ten |  |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 1.NBT. 4

Add within 100, including adding a two-digit number and a One-Digit number, and adding a two-digit number and a multiple of 10, 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 and explain the reasoning used. Understand that in adding two-digit numbers, one adds tens and tens, ones and ones; and sometimes it is necessary to compose a ten.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :---: | :---: | :---: |
|  |  | ISIP EM | Computations and Algebraic Thinking - Fact Family <br> Dominoes |

## Measurement and Data

Tell and write time with respect to a clock and calendar.

## 1.MD. 3

Tell and write time in hours and half-hours using analog and digital clocks.

| MP 1, 2, 3, 4, 5, 6, 7, 8 | Code | Teacher Resources |  |
| :---: | :--- | :---: | :--- |
| Code | Digital Student Experience | U16 | What Does the Clock Say? |
| U16 | Measurement and Data Analysis - Tell Time to the <br> Nearest Hour | U16 | Roll the Clock |
| U16 | Measurement and Data Analysis - Tell and Write Time <br> from Analog and Digital Clock to the Nearest Half Hour | U19 | Set the Time and Go! |
| U19 | Measurement and Data Analysis - Tell and Write Time <br> from Analog/Digital Clocks to the Nearest Hour and Half <br> Hour |  |  |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## Represent and interpret data.

## 1.MD. 4

Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category and how may more or less are in one category than another.

| MP 1, 2, 3, 4, 5, 6, 7, 8 | Code | Teacher Resources |  |
| :---: | :---: | :---: | :--- |
| Code | Digital Student Experience | U19 | Graphing Tic-Tac-Toe |
|  |  | ISIP EM | Picture Graphs to the Rescue! |
|  |  | ISIP EM | Analyze and Add Using Picture Graphs |
|  |  | ISIP EM | Graphing Three Ways |
|  |  | ISIP EM | Determining Most and Least with Graphs |
|  |  | ISIP EM | Read and Analyze Bar Graphs |

## Geometry

## Reason with shapes and their attributes.

## 1.G. 1

Distinguish between defining attributes (e.g., triangles are closed and three-sided) versus non-defining attributes (e.g., color, orientation, overall size); build and draw shapes to possess defining attributes.

| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| :---: | :---: | :---: | :--- |
| Code | Digital Student Experience | Code | Teacher Resources |
|  |  | $\mathbf{U 1 4}$ | Shape Four-in-a-Row |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 1.G. 3

Partition circles and rectangles into two and four equal shares, describe the shares using the words halves, fourths, and quarters, and use the phrases half of, fourth of, and quarter of. Describe the whole as two of, or four of the shares. Understand for these examples that partitioning into more equal shares creates smaller shares.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :---: | :---: | ---: |
| U18 | Geometry - Identify Halves and Fourths | U18 | Fraction Four-in-a-Row |

## Grade 2

## Operations and Algebraic Thinking

Represent and solve problems involving addition and subtraction.

### 2.0A. 1

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, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.

| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| :---: | :--- | :---: | :--- |
| Code | Digital Student Experience | Code | Teacher Resources |
| U32 | Computations and Algebraic Thinking - <br> Two-Step Word Problems with Unknowns at the End | U32 | Build and Solve Two-Step Equations with Addition and <br> Subtraction |
| U32 | Computations and Algebraic Thinking - <br> Two-Step Word Problems with Unknowns in the Middle | U32 | Build Multistep Equations with Multiple Operations |
|  |  | U32 | Solve Multistep Equations with Multiple Operations |

Add and subtract within 20.

| 2.0A. 2 |  |  |  |
| :---: | :---: | :---: | :---: |
| Fluently add and subtract within 20 using mental strategies. By end of Grade 2, know from memory all sums of two One-Digit numbers. |  |  |  |
| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| Code | Digital Student Experience | Code <br> U31 | Teacher Resources |
|  |  |  | Fact Families - Addition and Subtraction |
|  |  | FP | Fact Family Dominos (Addition/Subtraction) |

## 2.OA. 2

Fluently add and subtract within 20 using mental strategies. By end of Grade 2 , know from memory all sums of two One-Digit numbers.
MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :--- | :--- | :---: | :--- |
|  |  | FP | Addition Fast Track |
|  |  | FP | Subtraction Fast Track |
|  |  | FP | Left Hand, Right Hand Grab Bag |
|  |  | FP | Shake It! Make It! Solve It! Addition |
|  |  | FP | Sticky Sums |
|  |  | FP | Wipe Out |
|  |  | FP | Buile, Tally, Draw |
|  |  | ISIP | Addition and Subtraction Fact Families |
|  |  | ISIP | Fact Family Triangles |
|  |  |  |  |

Work with equal groups of objects to gain foundations for multiplication.

| 2.OA.3 <br> Determine whether a group of objects (up to 20) has an odd or even number of members, e.g. by pairing objects or counting them by 2s; write <br> an equation to express an even number as a sum of two equal addends. <br> MP 1, 2, 3, 4, 5, 6, 7, 8 <br> Code$\quad$ Code |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :--- | :---: | :---: | :---: | :---: |
| U30 | Computations and Algebraic Thinking - Even and Odd <br> Pairing | U30 | Determining Even and Odd by Pairing |  |  |  |  |

### 2.0A. 4

Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :---: | :---: | :---: |
| U32 | Computations and Algebraic Thinking - Addition Arrays | U32 | Addition Arrays |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## Number and Operations in Base Ten

## Understand place value.

## 2.NBT. 1

Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones (e.g., 706 equals 7 hundreds, 0 tens, and 6 ones). Understand the following as special cases:

100 can be thought of as a bundle of ten tens - called a "hundred."
a. The numbers $100,200,300,400,500,600,700,800,900$ refer to one, two, three, four, five, six, seven, eight or nine hundreds (and 0 tens and 0 ones).

| MP 1, 2, 3, 4, 5, 6, 7, 8 | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| Code | U30 | Building Numbers Using Base 10 Blocks |  |
| U30 | Number Sense - Writing Standard Form from Expanded <br> Form | U30 | Writing Expanded Form from Standard Form |
| U30 | Number Sense - Writing Expanded Form from Standard <br> Form | U30 | Writing Word Form from Expanded and Standard Form |
| U30 | Number Sense - Writing Word Form from Expanded and <br> Standard Form | ISIP | Equivalent Representations |
|  |  | ISIP | Build a Base Ten Cube |
|  |  | ISIP | Creating Numbers with Base 10 Blocks |
|  |  | ISIP | Expanded Form Place Value Cups |
|  |  | ISIP | Writing Standard Form from Expanded Form |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

| 2.NBT.3 |  |  |  |
| :---: | :--- | :---: | :--- | :--- |
| Read and write numbers to 1,000 using base-ten numerals, number names, and expanded form. |  |  |  |
| MP 1, 2, 3, 4, 5, 6, 7, 8 | Code | Teacher Resources |  |
| Code | Digital Student Experience | U30 | Building Numbers Using Base Ten Blocks |
| U30 | Number Sense - Writing Standard Form from Expanded <br> Form | U30 | Writing Expanded Form from Standard Form |
| U30 | Number Sense - Writing Expanded Form from Standard <br> Form | U30 | Writing Word Form from Expanded and Standard Form |
| U30 | Number Sense - Writing Word Form from Expanded and <br> Standard Form | ISIP | Equivalent Representations |
|  |  | ISIP | Build a Base Ten Cube |
|  |  | ISIP | Creating Numbers with Base 10 Blocks |
|  |  | ISIP | Expanded Form Place Value Cups |
|  |  | ISIP | Equivalent Representations |
|  |  | ISIP | Writing Standard Form from Expanded Form |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 2.NBT. 4

Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using >, =, and < symbols to record the results of comparisons

| MP 1, 2, 3, 4, 5, 6, 7, 8 | Code | Teacher Resources |  |
| :---: | :--- | :---: | :--- |
| Code | Digital Student Experience | U30 | Comparison - Two-Digit Numbers: Language and <br> Symbols |
| U30 | Number Sense - Comparing Two, Two-Digit Whole <br> Numbers | U30 | Comparison - Three-Digit Numbers |
| U30 | Number Sense - Comparing Two, Three-Digit Numbers | ISIP | Steps for Comparing Three-Digit Numbers |
| U30 | Number Sense - Comparing Two, Three-Digit Whole <br> Numbers with Zeroes | ISIP | Building and Comparing Three-Digit numbers |
|  |  | U30 | Comparison - Two-Digit Numbers: Language and <br> Symbols |
|  |  |  |  |

Use place value understanding and properties of operations to add and subtract.

## 2.NBT. 5

Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.

| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| :---: | :--- | :---: | :--- |
| Code | Digital Student Experience | Code | Teacher Resources |
| U31 | Computations and Algebraic Thinking - Adding with <br> Regrouping Using Concrete Models | U31 | Adding with Regrouping - Concrete |
| U31 | Computations and Algebraic Thinking - Subtracting with <br> Regrouping Using Concrete Models | U31 | Adding Using Partitioning |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 2.NBT. 5

Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.

| MP 1, 2, 3, 4, 5, 6, 7, 8 | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| Code | U31 | Subtracting Using Partitioning |  |
| U31 | Computations and Algebraic Thinking - Adding with <br> Regrouping - Partitioning | U31 | Adding on a Number Line |
| U31 | Computations and Algebraic Thinking - Subtracting with <br> Regrouping - Partitioning | U31 | Subtracting on a Number Line |
| U31 | Computations and Algebraic Thinking - Adding on a <br> Number Line | U31 | Fact Families - Addition and Subtraction |
| U31 | Computations and Algebraic Thinking - Subtracting on a <br> Number Line | FP | Fact Family Dominos (Addition/Subtraction) |
| U31 | Computations and Algebraic Thinking - Fact Families - <br> Addition and Subtraction | FP | Addition Fast Track |
|  |  | FP | Subtraction Fast Track |
|  |  | FP | Left Hand, Right Hand Grab Bag |
|  |  | FP | Shake It! Make It! Solve It! Addition |
|  |  | FP | Sticky Sums |
|  |  | FP | Write, Tally, Draw |
|  |  | ISIP | Partitioning for Addition |
|  | ISIP | Using Arrow Paths to Add and Subtract |  |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 2.NBT. 7

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. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds.

| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| :---: | :--- | :---: | :--- |
| Code | Digital Student Experience | Code | Teacher Resources |
| U32 | Computations and Algebraic Thinking - Two-Step Word <br> Problems with Unknowns at the End | U32 | Build Multistep Equations |
| U32 | Computations and Algebraic Thinking - Two-Step Word <br> Problems with Unknowns in the Middle | U32 | Build and Solve Two-Step Equations with Addition and <br> Subtraction |
|  |  | U32 | Build Multistep Equations with Multiple Operations |
|  |  | U32 | Solve Multistep Equations |
|  |  | ISIP | Choosing the Operation |

## Measurement and Data

## Measure and estimate lengths in standard units.

## 2.MD. 1

Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.

$$
\text { MP } 1,2,3,4,5,6,7,8
$$

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U33 | Measurement - Choose Units and Measure Lengths | U33 | Choosing Units of Linear Measurement |
| U33 | Measurement - Measure to the Nearest Centimeter | U33 | Measure to the Nearest Inch |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 2.MD. 1

Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.
MP $1,2,3,4,5,6,7,8$

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :---: | :---: | :--- |
|  |  | U33 | Measure to the Nearest Centimeter |
|  |  | ISIP | Appropriate Tools for Linear Measurement |
|  |  | ISIP | How to Use Linear Measurement Tools |
|  |  | ISIP | Measuring Objects |
|  |  | ISIP | Ruler Relay |

## 2.MD. 2

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.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :---: | :---: | :--- |
|  |  | ISIP | Unit Relationships |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 2.MD. 4

Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :--- | :--- | :---: | :---: |
|  |  | ISIP | Ruler Relay |

## Relate addition and subtraction to length.

## 2.MD. 6

Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to the numbers 0 , $1,2, \ldots$, and represent whole-number sums and differences within 100 on a number line diagram.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U31 | Computations and Algebraic Thinking - Adding on a <br> Number Line | U31 | Adding on a Number Line |
| U31 | Computations and Algebraic Thinking - Subtracting on a <br> Number Line | U31 | Subtracting on a Number Line |
|  |  |  |  |

Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## Work with time and money.

| $\|$2.MD. 7 <br> Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m. <br> MP 1, 2, 3, 4, 5, 6, 7, 8 <br> Code <br> U34 Measurement - Tell Time to the Nearest Five Minutes |
| :--- |

2.MD.8

| Find the value of combinations of dollar bills, quarters, dimes, nickels and pennies using $\$$ and $\Phi$ appropriately. |  |  |  |
| :---: | :---: | :---: | :--- |
| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| Code | Digital Student Experience | Code |  |
|  |  | U32 | Money Word Problems |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## Represent and interpret data

## 2.MD. 10

Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, takeapart, and compare problems using information presented in a graph.

| MP 1, 2, 3, 4, 5, 6, 7, 8 | Code | Teacher Resources |  |
| :---: | :--- | :---: | :--- |
| Code | Digital Student Experience | U33 | Creating Picture Graphs |
| U33 | Data Analysis - Solving Problems Using Information <br> Presented in Picture Graphs | U33 | Interpreting Picture Graphs |
| U33 | Data Analysis - Solving Problems Using Information <br> Presented in Bar Graphs | U33 | Analyzing Picture Graphs |
|  |  | U33 | Creating Bar Graphs |
|  |  | U33 | Interpreting Bar Graphs |
|  |  | U33 | Analyzing Bar Graphs |
|  |  |  |  |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## Geometry

## Reason with shapes and their attributes.

2.G.2

| Partition a rectangle into rows and columns of same-size squares and count to find the total number of them. |  |  |  |
| :---: | :---: | :---: | :--- |
| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| Code | Digital Student Experience |  | Code |
| U32 | Geometry - Addition Arrays | U32 | Addition Arrays |

## 2.G. 3

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. Recognize that equal shares of identical wholes need not have the same shape.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U32 | Geometry - Partitioning to Identify Halves, Thirds, and <br> Fourths | U32 | Equal Shares of Identical Wholes |
| U32 | Geometry - Equal Shares of Identical Wholes |  |  |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## Grade 3

Operations and Algebraic Thinking
Represent and solve problems involving multiplication and division.

| 3.OA. 1 |  |  |  |
| :---: | :---: | :---: | :---: |
| Interpret products of whole numbers, e.g., interpret $5 \times 7$ as the total number of objects in 5 groups of 7 objects each. For example, describe a context in which a total number of objects can be expressed as $5 \times 7$. |  |  |  |
| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| Code | Digital Student Experience | Code | Teacher Resources |
| U35 | Computations and Algebraic Thinking - Arithmetic Patterns in Multiplication | U35 | Arithmetic Patterns in Multiplication |
| U36 | Computations and Algebraic Thinking - Multiply One-Digit Numbers Using Concrete Models | U36 | One-Digit by One-Digit Multiplication |
| U36 | Computations and Algebraic Thinking - Multiply One-Digit Numbers Using $1 \times 1$ Arrays | U36 | Multiplying Two One-Digit Numbers with Arrays |
|  |  | U36 | Problem Solving without Numbers |
|  |  | ISIP | Practicing Fact Families |
|  |  | ISIP | Strip Diagrams - Compare |
|  |  | FP | Multominoes |
|  |  | FP | Tall Towers |
|  |  | FP | Dice Blocks |
|  |  | FP | Wipe Out |
|  |  | FP | Sticky Products |

## 3.OA. 1

Interpret products of whole numbers, e.g., interpret $5 \times 7$ as the total number of objects in 5 groups of 7 objects each. For example, describe a context in which a total number of objects can be expressed as $5 \times 7$.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :--- | :---: | :---: | :--- |
|  |  | FP | Multiplication Fast Track |
|  |  | FP | Fact Family Triangles: Multiplication and Division |
|  |  | FP | Shake It! Make It! Solve It! (Multiplication) |

## 3.OA. 2

Interpret whole number quotients of whole numbers, e.g., interpret $56 \div 8$ as the number of objects in each share when 56 objects are partitioned equally into 8 shares, or as a number of shares when 56 objects are partitioned into equal shares of 8 objects each.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U36 | Computations and Algebraic Thinking - Multiplication and <br> Division Fact Families | U36 | Fact Families: Multiplication and Division |
|  |  | ISIP | Doubling and Halving |
|  |  | ISIP | Relating Multiplication and Division |

## 3.OA. 3

Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.

| MP 1, 2, 3, 4, 5, 6, 7, 8 | Code | Teacher Resources |  |
| :---: | :--- | :---: | :--- |
| Code | Digital Student Experience | U36 | Build and Solve Two-Step Equations with All Operations |
| U36 | Computations and Algebraic Thinking - Build and Solve <br> Two-Step Equations with All Operations | ISIP | Doubling and Halving |
|  |  | ISIP | Problem Solving without Numbers |
|  |  | ISIP | Practicing with Fact Families |
|  |  | ISIP | Using Strip Diagrams to Solve Compare Problems |


| 3.OA.4 |  |  |  |
| :---: | :---: | :---: | :--- |
| Determine the unknown whole number in a multiplication or division equation relating three whole numbers. |  |  |  |
| MP 1, 2, 3, 4, 5, 6, 7, 8 | Code |  |  |
| Code | Digital Student Experience | Teacher Resources |  |
| U36 | Computations and Algebraic Thinking - Build and Solve <br> Two-Step Equations with All Operations | U36 | Fact Families - Multiplication and Division |
|  |  | U36 | Build and Solve Two-Step Equations with All Operations |
|  |  | ISIP | Relating Multiplication and Division |
|  |  | ISIP | Practicing Fact Families |
|  |  | ISIP | Using Strip Diagrams to Solve Compare Properties |

## 3.OA. 4

Determine the unknown whole number in a multiplication or division equation relating three whole numbers.

| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| :---: | :---: | :---: | :---: |
| Code | Digital Student Experience | Code | Teacher Resources |
|  |  | ISIP | Using the Commutative Property of Multiplication |

Understand properties of multiplication and the relationship between multiplication and division.

| 3.OA. 5 |  |  |  |
| :---: | :---: | :---: | :---: |
| Apply properties of operations as strategies to multiply and divide. |  |  |  |
| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| Code | Digital Student Experience | Code | Teacher Resources |
| U36 | Computations and Algebraic Thinking Properties of Multiplication | ISIP | Using the Commutative Property of Multiplication |
|  |  | ISIP | Multiplying with Three Factors |

3.OA.6

| Understand division as an unknown-factor problem. |  |  |  |
| :---: | :---: | :---: | :--- |
| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| Code | Digital Student Experience | Code | Teacher Resources |
| U36 | Computations and Algebraic Thinking - Fact Families - <br> Multiplication and Division | U36 | Fact Families: Multiplication and Division |
|  |  | ISIP | Doubling and Halving |


| $\left\lvert\,$3.OA.6     <br> Understand division as an unknown-factor problem.     <br> MP 1, 2, 3, 4, 5, 6, 7, 8     <br> Code    $\quad\right.$ Digital Student Experience |
| :--- |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## Multiply and divide within 100.

## 3.OA. 7

Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division e.g., knowing that $8 \times 5=$ 40, one knows $40 \div 5=8$ or properties of operations. Limit to division without remainders. By the end of Grade 3 , know from memory all products of two one-digit numbers.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U35 | Computations and Algebraic Thinking - <br> Arithmetic Patterns in Multiplication | U35 | Arithmetic Patterns in Multiplication |
| U36 | Computations and Algebraic Thinking - <br> Multiply One-Digit Numbers Using Concrete Models | U36 | One-Digit by One-Digit Multiplication |
| U36 | Computations and Algebraic Thinking - Fact Families - <br> Multiplication and Division | U36 | Multiplying Two One-Digit Numbers with Arrays |
| U36 | Computations and Algebraic Thinking - <br> Two-Step Word Problems - All Operations | U36 | Build and Solve Two-Step Equations with All Operations |
| U36 | Computations and Algebraic Thinking - <br> Properties of Multiplication | U36 | Fact Families - Multiplication and Division |
|  |  | ISIP | Doubling and Halving |
|  |  | ISIP | Relating Multiplication and Division |
|  | ISIP | Practicing Fact Families |  |
|  | ISIP | Strip Diagrams - Compare Problems |  |
|  | ISIP | Using the Commutative Property of Multiplication |  |
|  | ISIP | Doubling and Halving |  |

## 3.OA. 7

Fluently multiply and divide within 100 , using strategies such as the relationship between multiplication and division e.g., knowing that $8 \times 5=$ 40 , one knows $40 \div 5=8$ or properties of operations. Limit to division without remainders. By the end of Grade 3 , know from memory all products of two one-digit numbers.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :--- | :--- | :--- | :--- |
|  |  | FP | Wipe Out |
|  |  | FP | Multominoes |
|  |  | FP | Tall Towers |
|  |  | FP | Dice Blocks |
|  |  | FP | Sticky Products |
|  |  | FP | Division Fast Track |
|  |  | FP | Fact Family Triangles: Multiplication and Division |
|  |  | FP | Shake It! Make It! Solve It! (Multiplication) |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## Solve problems involving the four operations, and identify and explain patterns in arithmetic.

### 3.0A. 8

Solve two-step word problems using the four operations. Represent these problems using equations with a letter or symbol which stands for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding. This standard is limited to problems posed with whole numbers and having whole number answers. Students may use parentheses for clarification since algebraic order of operations is not expected.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U36 | Computations and Algebraic Thinking - <br> Two-Step Word Problems - All Operations | U35 | Addition Problem-Solving Strategies |
|  |  | U35 | Addition Problem-Solving Strategies |
|  |  | U35 | Subtraction Problem-Solving Strategies |
|  |  | U35 | Problem Solving without Numbers: Addition and <br> Subtraction |
|  |  | U36 | Build and Solve Two-Step Equations with All Operations |
|  |  | Problem Solving without Numbers: Multiplication and <br> Division |  |

3.OA.9

| Identify arithmetic patterns (including patterns in the addition table or multiplication table) and explain them using properties of operations. |  |  |  |
| :---: | :--- | :---: | :--- |
| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| Code | Digital Student Experience |  | Code |
| U35 | Computations and Algebraic Thinking - Arithmetic <br> Patterns in Multiplication | U35 | Arithmetic Patterns in Multiplication |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## Number and Operations in Base Ten

Use place value understanding and properties of operations to perform multi-digit arithmetic.

## 3.NBT. 1

Use place value understanding to round whole numbers to the nearest 10 or 100.
MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U35 | Number Sense - Rounding to the Nearest Ten | U35 | Rounding - Nearest Ten |
| U35 | Number Sense - Rounding to the Nearest Hundred | U35 | Rounding - Nearest Hundred |
|  |  | U35 | Rounding - Nearest Ten, Hundred, Thousand |


| $\left\lvert\,$3.NBT.2 <br> Fluently add and subtract within 1,000 using strategies and algorithms based on place value, properties of operations, and/or the relationship <br> between addition and subtraction. <br> MP 1, 2, 3, 4, 5, 6, 7, 8 <br> Code$\quad$Digital Student Experience\right. |
| :--- |
| U36 | | Computations and Algebraic Thinking - Two-Step Word |
| :--- |
| Problems - All Operations |$\quad$ U36 | Build and Solve Two-Step Equations with All Operations |
| :--- |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## Number and Operations - Fractions

## Develop understanding of fractions as numbers.

## 3.NF. 1

Understand a fraction $1 / b$ as the quantity formed by 1 part when a whole is partitioned into $b$ equal parts; understand a fraction $a / b$ as the quantity formed by a parts and size $1 / b$.

## MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :--- | :--- | :---: | :--- |
|  |  | ISIP | Recognizing Fractions in Different Forms |
|  |  | ISIP | Writing Fractions - Symbolic Notation |

## 3.NF. 2

Understand a fraction as a number on the number line; represent fractions on a number line diagram.
a. Represent a fraction $1 / b$ on a number line diagram by defining the interval from 0 to 1 as the whole and partitioning it into $b$ equal parts. Recognize that each part has size $1 / b$ and that the endpoint of the part based at 0 locates the number $1 / b$ on the number line.
b. Represent a fraction $a / b$ (which may be greater than 1 ) on a number line diagram by marking off a lengths $1 / b$ from 0 . Recognize that the resulting interval has size $a / b$ and that its endpoint locates the number $a / b$ on the number line.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U37 | Number Sense - Equivalent Fractions | U37 | Fractions Equivalent to One |
| U37 | Number Sense - Fractions Equivalent to One | U37 | Fractions Equivalent to Whole Numbers |
| U37 | Number Sense - Many Equivalent Fractions | U37 | Mixed Fractions on a Number Line |
|  |  | U37 | Many Equivalent Fractions |

## 3.NF. 2

Understand a fraction as a number on the number line; represent fractions on a number line diagram.
a. Represent a fraction $1 / b$ on a number line diagram by defining the interval from 0 to 1 as the whole and partitioning it into $b$ equal parts. Recognize that each part has size $1 / b$ and that the endpoint of the part based at 0 locates the number $1 / b$ on the number line.
b. Represent a fraction $a / b$ (which may be greater than 1 ) on a number line diagram by marking off a lengths $1 / b$ from 0 . Recognize that the resulting interval has size $\mathrm{a} / \mathrm{b}$ and that its endpoint locates the number $\mathrm{a} / \mathrm{b}$ on the number line.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :---: | :---: | :--- |
|  |  | U37 | Identifying Equivalent Fractions |

## 3.NF. 3

Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size.
a. Understand two fractions as equivalent (equal) if they are the same size or the same point on a number line.
b. Recognize and generate simple equivalent fractions, e.g., $1 / 2=2 / 4,4 / 6=2 / 3$. Explain why the fractions are equivalent, e.g., by using a visual fraction model.
c. Express whole numbers as fractions, and recognize fractions that are equivalent to whole numbers.
d. Compare two fractions with the same numerator or the same denominator by reasoning about their size. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with the symbols >, =, or <, and justify the conclusions, e.g., by using a visual fraction model.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U37 | Number Sense - Equivalent Fractions | U37 | Fractions Equivalent to One |
| U37 | Number Sense - Fractions Equivalent to One | U37 | Many Equivalent Fractions |
| U37 | Number Sense - Many Equivalent Fractions | U37 | Fractions Equivalent to Whole Numbers |
| U37 | Number Sense - Fractions Equivalent to Whole Numbers | U37 | Comparison - Fractions and Whole Numbers - Symbols |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 3.NF. 3

Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size.
a. Understand two fractions as equivalent (equal) if they are the same size or the same point on a number line.
b. Recognize and generate simple equivalent fractions, e.g., $1 / 2=2 / 4,4 / 6=2 / 3$. Explain why the fractions are equivalent, e.g., by using a visual fraction model.
c. Express whole numbers as fractions, and recognize fractions that are equivalent to whole numbers.
d. Compare two fractions with the same numerator or the same denominator by reasoning about their size. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with the symbols $>$, =, or <, and justify the conclusions, e.g., by using a visual fraction model.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U37 | Number Sense - Mixed Numbers | U37 | Comparing Fractions with Like Numerators |
| U37 | Number Sense - Comparing Fractions with the Same <br> Denominator | U37 | Identify Equivalent Fractions |
| U37 | Number Sense - Comparing Fractions with the Same <br> Numerator | ISIP | Comparing Fractions Using Models |
|  |  | ISIP | Comparing Fractions |
|  |  | ISIP | Identify Equivalent Fractions Using Area Models |
|  |  | ISIP | Recognizing Fractions in Different Forms |

## Measurement and Data

Solve problems involving money, measurement and estimation of intervals of time, liquid volumes, and masses of objects.

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 3.MD. 1

Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in minutes, e.g., by representing the problem on a number line diagram.

| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| :---: | :--- | :---: | :---: |
| Code | Digital Student Experience | Code | Teacher Resources |
| U39 | Measurement and Data Analysis - Elapsed Time on a <br> Number Line | U39 | Elapsed Time within One-Hour |
|  |  | U39 | Elapsed Time across Hours |

Represent and interpret data.

## 3.MD. 3

Create a scaled picture graphs to represent a data set with several categories. Create a scaled bar graph to represent a data set with several categories. Solve two-step "how many more" and "how many less" problems using information presented in the scaled graphs.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :---: |
| U39 | Measurement and Data Analysis - Two-Step Word <br> Problems with Bar Graphs | U39 | Solving Two-Step Problems Using Bar Graphs |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

Geometric measurement: understand concepts of area and relate area to multiplication and to addition.

## 3.MD. 5

Recognize area as an attribute of plane figures, and understand concepts of area measurement.
a. A square with side length 1 unit called "a unit square," is said to have "one square unit" of area and can be used to measure area.
b. A plane figure which can be covered without gaps or overlaps by $n$ unit squares is said to have an area of $n$ square units.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :---: | :---: | :--- |
|  |  | ISIP | Area Square |
|  |  | ISIP | Finding the Area of Squares |
|  |  | ISIP | Finding the Area of Rectangles |

## 3.MD. 6

Measure areas by counting unit squares (square cm , square m , square in, square ft ., and improvised units).
MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :--- | :--- | :---: | :--- |
|  |  | ISIP | Area Square |
|  |  | ISIP | Finding the Area of Squares |
|  |  | ISIP | Finding the Area of Rectangles |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 3.MD. 7

Relate area to the operations of multiplication and addition.
a. Find the area of a rectangle with whole number side lengths by tiling it, and show that the area is the same as would be found by multiplying the side lengths.
b. Multiply side lengths to find areas of rectangles with whole number side lengths in the context of solving real-world and mathematical problems, and represent whole number products as rectangular areas in mathematical reasoning.
c. Use tiling to show in a concrete case that the area of a rectangle with whole number side lengths $a$ and $b+c$ is the sum of $a \times b$ and $a \times$ c. (represent the distributive property with visual models including an area model).
d. Recognize area as additive. Find the area of figures composed of rectangles by decomposing them into non-overlapping rectangles and adding the areas of the non-overlapping parts, applying this technique to solve real-world problems.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :---: | :---: | :--- |
|  |  | ISIP | Area Square |
|  |  | ISIP | Finding the Area of Squares |
|  |  | ISIP | Finding the Area of Rectangles |

Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.

## 3.MD. 8

Solve real-world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length, and exhibiting rectangles with the same perimeter and different areas or with the same area and different perimeters.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :---: | :---: | :---: |
| U38 | Measurement - Perimeter Word Problems | U38 | Perimeter Lesson A: Finding Perimeter |

## 3.MD. 8

Solve real-world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length, and exhibiting rectangles with the same perimeter and different areas or with the same area and different perimeters.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :---: | :---: | :--- |
|  |  | U38 | Finding Missing Side Lengths in Perimeter Problems |
|  |  | ISIP | Measurement and Data Analysis - Measuring Perimeter <br> of Polygons |

## Geometry

## Reason with shapes and their attributes

## 3.G. 1

Understand that shapes in different categories (e.g., rhombuses, rectangles, and others) may share attributes (e.g., having four sides), and that the shared attributes can define a larger category (e.g., quadrilaterals). Recognize rhombuses, rectangles, and squares as examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to any of these subcategories.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U38 | Geometry - Attributes of Quadrilaterals | U38 | Understanding Quadrilaterals |
|  |  | ISIP | Defining Quadrilaterals by Attributes |


| 3.G.2 |
| :--- |
| Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole. <br> MP 1, 2, 3, 4, 5, 6, 7, 8 <br> Code$\quad$ Digital Student Experience |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## Grade 4

Operations and Algebraic Thinking
Use the four operations with whole numbers to solve problems.

## 4.OA. 1

Interpret a multiplication equation as a comparison, e.g., interpret $35=5 \times 7$ as a statement that 35 is 5 times as many as 7 and 7 times as many as 5 . Represent verbal statements of multiplicative comparisons as multiplication equations.

$$
\text { MP } 1,2,3,4,5,6,7,8
$$

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :---: |
| U42 | Computations and Algebraic Thinking - Solve Multistep <br> Word Problems | U42 | Building and Solving Multistep Equations with All <br> Operations |

## 4.OA. 2

Multiply or divide to solve word problems involving multiplicative comparison, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem, distinguishing multiplicative comparison from additive comparison.

| MP 1, 2, 3, 4, 5, 6, 7, 8 | Code | Teacher Resources |  |
| :---: | :--- | :---: | :--- |
| Code | Digital Student Experience | U42 | Building and Solving Multistep Equations with All <br> Operations |
| U42 | Computations and Algebraic Thinking - Solve Multistep <br> Word Problems | ISIP | Using Multiplication to Solve If-Then Word Problems |
|  |  |  |  |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 4.OA. 3

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. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.

$$
\text { MP } 1,2,3,4,5,6,7,8
$$

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U42 | Computations and Algebraic Thinking - Solve Multistep <br> Word Problems | U42 | Building and Solving Multistep Equations with All <br> Operations |
|  |  | ISIP | Using Multiplication to Solve If-Then Word Problems |

## Gain familiarity with factors and multiples.

### 4.0A. 4

Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself.
MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :---: | :---: | :---: |
|  |  | ISIP | Integrating Fact Practice Using Input/Output Function <br> Tables |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## Number and Operations in Base Ten

Generalize place value understanding for multi-digit whole numbers less than or equal to $1,000,000$.

## 4.NBT. 1

Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right.
MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :--- | :--- |
| U40 | Number Sense - Expanded Form to Thousands |  |  |
| U40 | Number Sense - Standard Form to Thousands |  |  |

## 4.NBT. 2

Read and write multi-digit whole number whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons.

| MP 1, 2, 3, 4, 5, 6, 7, 8 | Code | Teacher Resources |  |
| :---: | :--- | :---: | :--- |
| Code | Digital Student Experience | U40 | Writing Expanded Form from Standard through <br> Thousands and Millions |
| U40 | Number Sense - Expanded Form to Thousands | U40 | Writing Standard Form from Expanded through <br> Thousands and Millions |
| U40 | Number Sense - Expanded Form to Millions | U40 | Writing Word Form from Expanded and Standard through <br> Thousands and Millions |
| U40 | Number Sense - Writing Expanded Form from Standard <br> Form through Millions |  |  |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 4.NBT. 3

Use place value understanding to round multi-digit whole numbers to any place through 1,000,000.

| MP 1, 2, 3, 4, 5, 6, 7, 8 | Code | Teacher Resources |  |
| :---: | :--- | :---: | :--- |
| Code | Digital Student Experience | U40 | Rounding - Nearest Thousand |
| U40 | Number Sense - Rounding to the Nearest Thousand | U40 | Rounding - Nearest Ten, Hundred, Thousand |
| U40 | Number Sense - Round to Any Place up to Thousands <br> with Number Line | U40 | Rounding within Three- and Four-Digit Numbers - <br> Number Line |
| U40 | Number Sense - Round to Any Place up to Thousands <br> with Algorithm | U40 | Rounding within Three- and Four-Digit Numbers - <br> Algorithm |
| U40 | Number Sense - Rounding Zero | U40 | Zero as the Rounding Digit |
|  |  |  |  |

Use place value understanding and properties of operations to perform multi-digit arithmetic.

## 4.NBT. 4

Fluently add and subtract multi-digit whole numbers using the standard algorithm.

$$
\text { MP } 1,2,3,4,5,6,7,8
$$

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :---: | :---: | :--- |
|  |  | ISIP | Adding Multi-Digit Numbers and Checking for <br> Reasonableness |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 4.NBT. 5

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. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.

| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| :---: | :--- | :---: | :---: |
| Code | Digital Student Experience | Code | Teacher Resources |
| U41 | Computations and Algebraic Thinking - Multiply Two-Digit <br> Numbers with Models | U41 | Two-Digit by Two-Digit Concrete Multiplication |

## Number and Operations - Fractions

## Extend understanding of fraction equivalence and ordering.

## 4.NF. 1

Recognize that the value of " $n$ " cannot be 0 , explain why a fraction $a / b$ is equivalent to fraction $(n \times a) /(n \times b)$ by using visual fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size. Use this principle to recognize and generate equivalent fractions.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U43 | Number Sense - Determine Equivalent Fractions with <br> Models | U43 | Fraction Comparison Using Benchmark Fractions |
| U43 | Number Sense - Comparing Fractions Using Benchmark <br> Fractions | U43 | Compare Fractions Using Symbols |
| U43 | Number Sense - Compare Fractions Using Symbols | U43 | Compare Fractions by Creating Common Denominators |
|  |  | ISIP | Comparing Fractions |
|  |  | ISIP | Using Area Models to Compare Fractions |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 4.NF. 2

Compare two fractions with different numerators and different denominators, e.g., by creating common denominators or numerators, or by comparing to a benchmark fraction such as $1 / 2$. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols $>,=$, or $<$, and justify the conclusions, e.g., by using a visual fraction model.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U43 | Number Sense - Comparing Fractions Using Benchmark <br> Fractions | U43 | Fraction Comparison Using Benchmark Fractions |
| U43 | Number Sense - Comparing Fractions with Unlike <br> Denominators | U43 | Compare Fractions Using Symbols |
|  |  | U43 | Compare Fractions by Creating Common Denominators |
|  |  | ISIP | Comparing Fractions |
|  |  | Using Area Models to Compare Fractions |  |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

Build fractions from unit fractions by applying and extending previous understanding of operations on whole numbers.

## 4.NF. 3

Understand a fraction $a / b$ with $a>1$ as a sum of fractions $1 / b$.
a. Understand addition and subtraction of fractions as joining and separating parts referring to the same whole.
b. Decompose a fraction into a sum of fractions with the same denominator in more than one way, recording each decomposition by an equation. Justify decompositions, e.g., by using a visual fraction model.
c. Add and subtract mixed numbers with like denominators, e.g., by replacing each mixed number with an equivalent fraction, and/or by using properties of operations and the relationship between addition and subtraction.
d. Solve word problems involving addition and subtraction of fractions referring to the same whole and having like denominators, e.g., by using visual fraction models and equations to represent the problem.

| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| :---: | :--- | :---: | :--- |
| Code | Digital Student Experience | Code | Teacher Resources |
| U43 | Number Sense - Decomposing Fractions | U43 | Add Like Denominators of Ten and One Hundred |
| U43 | Number Sense - Adding Fractions with Like Denominators <br> of Ten and One Hundred | U43 | Adding Denominators of Ten to Denominators of One <br> Hundred |
| U43 | Number Sense - Adding Fractions with Denominators of <br> Ten and One Hundred |  |  |

Understand decimal notation for fractions, and compare decimal fractions.

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 4.NF. 5

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.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U43 | Computations and Algebraic Thinking - Determine <br> Equivalent Fractions Tenths and Hundredths | U43 | Expressing Equivalent Fractions with Denominators of <br> Ten and One Hundred |
| U43 | Computations and Algebraic Thinking - Add Tenths to <br> Hundredths | U43 | Adding Like Denominators of Ten and One Hundred |
|  |  | U43 | Fractions - Add Denominators of Ten to Denominators of <br> One Hundred |

## 4.NF. 6

Use decimal notation for fractions with denominators of 10 or 100 . For example, rewrite 0.62 as $62 / 100$; describe a length as 0.62 meters; locate 0.62 on a number line diagram.

$$
\text { MP } 1,2,3,4,5,6,7,8
$$

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U43 | Number Sense - Determine Equivalent Fractions (Tenths <br> and Hundredths) | U43 | Decimals as Fractions (Tenths and Hundredths) |
| U43 | Number Sense - Determine Equivalent Fractions Using <br> Models | U43 | Expressing Equivalent Fractions with Denominators of <br> Ten and One Hundred |
|  |  | ISIP | Understand Decimal Numbers with Fractional Language |
|  |  | ISIP | Fraction to Decimal Equivalence |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 4.NF. 7

Compare two decimals to hundredths by reasoning about their size. Recognize that comparisons are valid only when the two decimals refer to the same whole. Record the results of comparisons with symbols $>$, =, or <, justify the conclusions, e.g., by using a visual model.

| MP 1, 2, 3, 4, 5, 6, 7, 8 | Code | Teacher Resources |  |
| :---: | :--- | :---: | :--- |
| Code | Uigal Student Experience | U 43 | Standard and Word Form of Decimals (0.01-0.09 and 0.1- <br> $0.9)$ |
| U43 | Number Sense - Understanding Decimals (0.1-0.9 and <br> $0.01-0.09)$ | U 43 | Standard and Word form of Decimals (0.10-0.90) |
| U43 | Number Sense - Understanding Decimals 0.1-0.9 | U 43 | Standard and Word form of Decimals (0.01-1.99) |
| U43 | Number Sense - Understanding Decimals with Visual <br> Models 0.01-1.99 | ISIP | Comparing and Ordering Decimals |
|  |  |  |  |

## Measurement and Data

## Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

## 4.MD. 1

Know relative sizes of measurement units within one system of units including km, m, cm, and mm; kg, g, mg; lb., oz.; l, ml; hr., min, sec. Within a single system of measurement, express a larger measurement unit in terms of a smaller unit. Record measurement conversions in a twocolumn table. For example, know that 1 ft is 12 times as long as 1 in . Express the length of a ft snake as 48 in . Generate a conversion table for feed and inches listing the number pairs $(1,12),(2,24),(3,36) \ldots$

| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |
| :---: | :--- |
| Code | Digital Student Experience |
| U44 | Measurement and Data Analysis - Word Problems with <br> Various Measurements |


| Code | Teacher Resources |
| :---: | :---: |
| U44 | Converting Units of Measurement in Word Problems |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 4.MD. 2

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 requires expressing measurements given a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U44 | Measurement and Data Analysis - Word Problems with <br> Various Measurements | U44 | Converting Units of Measurement in Word Problems |
|  |  | ISIP | Measuring Length to the Next Quarter Inch |
|  |  | ISIP | Calculating Elapsed Time |

## 4.MD. 3

Apply the area and perimeter formulas for rectangles in real world and mathematical problems.
MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :---: | :---: | :--- |
|  |  | ISIP | Finding Area of Rectangles and Squares by Using <br> Multiplication |
|  |  | ISIP | Quantifying Areas of Rectangles and Squares |
|  |  | ISIP | Making Connections between Multiplication and Area |
|  |  | ISIP | Decomposing Figures to Find the Area of Polygons |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## Represent and interpret data.

## 4.MD. 4

Make a line plot to display a data set of measurements in fractions of a unit ( $1 / 2,(1 / 4,1 / 8)$. Solve problems involving addition and subtraction of fractions by using information presented in line plots.

| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| :---: | :--- | :---: | :--- |
| Code | Digital Student Experience | Code | Teacher Resources |
| U45 | Data Analysis - Line Plots with Fractional Data | U 45 | Line Plots with Fractional Data |
| U45 | Data Analysis - Analyzing Line Plots | U 45 | Finding Scales of Line Plots |

## Geometric measurement: understand concepts of angle and measure angles.

## 4.MD. 5

Recognize angles as geometric shapes that are formed wherever two rays share a common endpoint, and understand concepts of angle measurement:
a. Understand an angle is measured with reference to a circle with its center at the common endpoint of the rays, by considering the fraction of the circular arc between the points where the two rays intersect the circle. An angle that turns through $1 / 360$ of a circle is called a "one-degree angle," and can be used to measure angles.
b. Understand an angle that turns through $n$ one-degree angles is said to have an angle measure of $n$ degrees.

## MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :---: | :---: | :--- |
| U45 | Geometry - Measuring Angles with a Protractor | U45 | Measuring Angles with a Protractor |
|  |  | ISIP | Line and Angle Identification |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 4.MD. 6

Measure angles in whole number degrees using a protractor. Sketch angles of specified measure.
MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :---: | :---: | :--- |
| U45 | Geometry - Measuring Angles with a Protractor | U45 | Measuring Angles with a Protractor |
|  |  | ISIP | Line and Angle Identification |

## 4.MD. 7

Recognize angle measure as additive. When an angle is decomposed into non-overlapping parts, the angle measure of the whole is the sum of the angle measures of the parts. Solve addition and subtraction problems to find unknown angles on a diagram in real world and mathematical problems, e.g., by using an equation with a symbol for the unknown angle measure.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U45 | Geometry - Determine Missing Angles | U45 | Find the Missing Angle Measurement |
|  |  | ISIP | Line and Angle Identification |

## Geometry

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

| $\left\lvert\,$4.G.1 <br> Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional <br> figures. <br> MP 1, 2, 3, 4, 5, 6, 7, 8 <br> Code$\quad\right.$ Digital Student Experience |
| :--- |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

Grade 5
Operations and Algebraic Thinking
Write and interpret numerical expressions.

## 5.OA. 1

Use parentheses in numerical expressions and evaluate expressions with this symbol. Formal use of algebraic order of operations is not necessary.

$$
\text { MP 1, 2, 3, 4, 5, 6, 7, } 8
$$

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U49 | Computations and Algebraic Reasoning - Evaluate <br> Numerical Expressions with Parentheses | U49 | Evaluating Numerical Expressions with Parentheses |
| U49 | Computations and Algebraic Reasoning - Interpret <br> Numerical Expressions with Parentheses | U49 | Identifying Expressions in Scenarios |
| U49 | Computations and Algebraic Reasoning - Write Numerical <br> Expressions from Words | U49 | Writing Expressions from Words - <br> Addition and Subtraction |
|  |  | U49 | Writing Expressions from Words - Subtraction |


| $5 . O A .2$ |  |  |  |
| :---: | :---: | :---: | :---: |
| Write simple expressions that record calculations with numbers and interpret numerical expressions without evaluating them. |  |  |  |
| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| Code | Digital Student Experience | Code | Teacher Resources |
| U49 | Computations and Algebraic Reasoning - Evaluate <br> Numerical Expressions with Parentheses | Evaluating Numerical Expressions with Parentheses |  |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

### 5.0A. 2

Write simple expressions that record calculations with numbers and interpret numerical expressions without evaluating them.

| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| :---: | :--- | :---: | :--- |
| Code | Digital Student Experience | Code | Teacher Resources |
| U49 | Computations and Algebraic Reasoning - Interpret <br> Numerical Expressions with Parentheses | U49 | Identifying Expressions in Scenarios |
| U49 | Computations and Algebraic Reasoning - Write Numerical <br> Expressions from Words | U49 | Writing Expressions from Words - <br> Addition and Subtraction |
|  | U49 | Writing Expressions from Words - Subtraction |  |

## Analyze patterns and relationships.

## 5.OA. 3

Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns and graph the ordered pairs on a coordinate plane.

$$
\text { MP } 1,2,3,4,5,6,7,8
$$

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :---: |
| U51 | Computations and Algebraic Thinking - Comparing Points <br> on a Coordinate Plane | U51 | Comparing Points on a Coordinate Plane |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

Number and Operations in Base Ten
Understand the place value system.

## 5.NBT. 1

Recognize 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.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U46 | Number Sense - Multiplying Decimals by Ten and One <br> Hundred | U46 | Multiplying Decimals by Ten and One Hundred |
| U46 | Number Sense - Dividing Decimals by Ten and One <br> Hundred | U46 | Dividing Decimals by Ten and One Hundred |
| U46 | Number Sense - Exploring Powers of Ten | U46 | Multiplying and Dividing Decimals by Powers of Ten |
| U46 | Number Sense - Multiplying and Dividing Decimals by <br> Powers of Ten | U46 Exploring Powers of Ten |  |

## 5.NBT. 2

Explain patterns in the number of zeros of the product when multiplying a number by powers of 10 and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10 . Use whole number exponents to denote powers of 10.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :---: |
| U46 | Number Sense - Multiplying Decimals by Ten and One <br> Hundred | U46 | Multiplying Decimals by Ten and One Hundred |
| U46 | Number Sense - Dividing Decimals by Ten and One <br> Hundred | U46 | Dividing Decimals by Ten and One Hundred |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 5.NBT. 2

Explain patterns in the number of zeros of the product when multiplying a number by powers of 10 and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10 . Use whole number exponents to denote powers of 10 .

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U46 | Number Sense - Exploring Powers of Ten | U46 | Multiplying and Dividing Decimals by Powers of Ten |
| U46 | Number Sense - Multiplying and Dividing Decimals by <br> Powers of Ten | U46 | Exploring Powers of Ten |

## 5.NBT. 3

Read, write, and compare decimals to thousandths.
a. Read and write decimals to thousandths using base-ten numerals, number names, and expanded form, e.g., $347.392=3 \times 100+4 \times$ $10+7 \times 1+3 \times(1 / 10)+9 \times(1 / 100)+2 \times(1 / 1000)$.
b. Compare two decimals to thousandths based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons.

| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| :---: | :--- | :---: | :--- |
| Code | Digital Student Experience | Code | Teacher Resources |
| U46 | Number Sense - Compare Decimals Visually on the <br> Number Line | U46 | Decimal Grids and Place Value Mats |
| U46 | Number Sense - Compare Tenths and Hundredths on a <br> Number Line | U46 | Decimal Comparison on the Number Line |
| U46 | Number Sense - Compare Tenths and Hundredths (with <br> visual aids) | U46 | Abstract Decimal Comparison |
| U46 | Number Sense - Abstract Comparison of Decimals to <br> Thousandths | U46 | Decimals with Whole Number Comparison |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 5.NBT. 4

Use place value understanding to round decimals to any place, millions through hundredths.
MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U46 | Number Sense - Round Decimals on the Number Line | U46 | Rounding Decimals on the Number Line |
| U46 | Number Sense - Round Decimals with the Rounding <br> Algorithm | U46 | Rounding Decimals with the Rounding Algorithm |
| U46 | Number Sense - Round Decimals with Whole Numbers |  |  |

Perform operations with multi-digit whole numbers and with decimals to hundredths.

## 5.NBT. 6

Find whole number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. lllustrate and explain the calculation by using equations, rectangular arrays, and/or area models.

| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| :---: | :--- | :---: | :--- |
| Code | Digital Student Experience | Code | Teacher Resources |
| U47 | Computations and Algebraic Thinking - Divide Three-Digit <br> by Two-Digit Numbers with an Area Model | U47 | Four-Digit by Two-Digit Division (Partial Quotients) |
| U47 | Computations and Algebraic Thinking - Divide Four-Digit <br> Numbers by Two-Digit Numbers | ISIP | Estimating Quotients Using Compatible Numbers |
|  |  | ISIP | Using Models to Practice Extended Division Facts |
|  |  | ISIP | Models for Understanding Remainders |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 5.NBT. 7

Add, subtract, multiply, and divide decimals to hundredths, 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 and explain the reasoning used. In this standard, dividing decimals is limited to a whole number dividend with a decimal divisor or a decimal dividend with a whole number divisor. Compare the value of the quotient on the basis of the values of the dividend and divisor

| MP 1, 2, 3, 4, 5, 6, 7, 8 | Code | Teacher Resources |  |
| :---: | :--- | :---: | :--- |
| Code | Digital Student Experience | U46 | Multiplying Decimals by Ten and One Hundred |
| U46 | Computations and Algebraic Thinking - Visual <br> Representation for Multiplying Decimals | U46 | Dividing Decimals by Ten and One Hundred |
| U46 | Computations and Algebraic Thinking - Multiply Decimals <br> by Powers of Ten | U46 | Multiplying and Dividing Decimals by Powers of Ten |
| U46 | Computations and Algebraic Thinking - Divide Decimals <br> by Powers of Ten | U47 | Decimal Addition |
| U46 | Computations and Algebraic Thinking - Multiply and <br> Divide Decimals by Powers of Ten | U47 | Decimal Subtraction |
|  |  | U47 | Concrete Decimal Division |
|  |  | U47 | Representational Decimal Division |
|  |  | ISIP | Calculating Reasonable Estimates of Decimal Number <br> Sums |
|  |  | Adding and Subtracting Decimals Numbers in a Word <br> Problem |  |
|  |  |  |  |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

Number and Computations and Algebraic Thinking - Fractions
Use equivalent fractions as a strategy to add and subtract fractions.

## 5.NF. 1

Add and subtract fractions with unlike denominators (including mixed numbers and fractions greater than 1) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :---: |
| U48 | Computations and Algebraic Thinking - <br> Add Fractions with Unlike Denominators | U48 | Adding Fractions with Unlike Denominators |
| U48 | Computations and Algebraic Thinking - Subtract Fractions <br> with Unlike Denominators | ISIP | Adding and Subtracting Fractions with Unlike <br> Denominators |

## 5.NF. 2

Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers.
MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U48 | Computations and Algebraic Thinking - Add Fractions <br> with Unlike Denominators | U48 | Adding Fractions with Unlike Denominators |
| U48 | Computations and Algebraic Thinking - Subtract Fractions <br> with Unlike Denominators | U48 | Subtracting Fractions with Unlike Denominators |
|  |  | ISIP | Adding and Subtracting Fractions with Unlike <br> Denominators |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

Apply and extend previous understandings of multiplication and division to multiply and divide fractions.

## 5.NF. 4

Apply and extend previous understandings of multiplication to multiply a fraction or whole number by a fraction.
a. Interpret the product $(a / b) \times q$ as a part of a partition of $q$ into $b$ equal parts, equivalently, as the result of a sequence of operations $a \times q$ $\div \mathrm{b}$.
b. 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. Multiply fractional side lengths to find areas of rectangles and represent fraction products as rectangular areas.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U48 | Computations and Algebraic Thinking - Multiply by <br> Fractions Less Than One | U48 | Multiplying by Fractions Less Than One |
| U48 | Computations and Algebraic Thinking - Multiply by <br> Fractions Greater Than One | U48 | Multiplying by Fractions Less Than One (Extra Practice) |
| U50 | Measurement and Data Analysis - Multiply Fractions to <br> Find the Area of a Rectangle | U48 | Multiplying Fractions Less Than One with Improper <br> Fractions |
|  |  | U48 | Multiplying Whole Numbers by Fractions Less Than One |
|  |  | Multiplying Whole Numbers by Fractions Greater Than <br> One |  |
|  | Determine the Area of a Rectangle with Fractional Side <br> Lengths |  |  |

## 5.NF. 6

Solve real-world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problem.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U48 | Computations and Algebraic Thinking - Multiply Fractions <br> with Improper Fractions | $\mathrm{U48}$ | Multiplying by Fractions Less Than One |
|  |  | $\mathrm{U48}$ | Multiplying by Fractions Less Than One (Extra Practice) |
|  |  | $\mathrm{U48}$ | Multiplying Fractions Less Than One with Improper <br> Fractions |
|  |  | Multiplying Whole Numbers by Fractions Greater Than <br> One |  |

## Measurement and Data

## Convert like measurement units within a given measurement system.

## 5.MD. 1

Know relative sizes of these U.S. customary measurement units: pounds, ounces, miles, yards, feet, inches, gallons, quarts, pints, cups, fluid ounces, hours, minutes, and seconds. Convert between pounds and ounces; miles and feet; yards, feet, and inches; gallons, quarts, pints, cups, and fluid ounces; hours, minutes, and seconds in solving multi-step, real-world problems.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :--- | :---: | :---: | :---: |
|  |  | ISIP | Converting Standard Units of Measurement |
|  |  | ISIP | Performing Customary Measurement Conversions |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.

## 5.MD. 3

Recognize volume as an attribute of solid figures and understand concepts of volume measurement.
a. A cube with side length 1 unit, called a "unit cube," is said to have "one cubic unit" of volume and can be used to measure volume.
b. A solid figure that can be packed without gaps or overlaps using $n$ unit cubes is said to have a volume of $n$ cubic units.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :---: | :---: | :--- |
| U50 | Measurement - Volume of Irregular Figures | U50 | Volume of Rectangular Prisms |
|  |  | U50 | Volume of Irregular Figures |
|  |  | ISIP | Volume as an Attribute of Three-Dimensional Space |
|  |  | ISIP | Quantifying Volume: Counting Same-Sized Units |
|  |  | ISIP | Integrating Fact Practice and Volume |
|  |  | Calculating Volume in Multistep Word Problems |  |

## 5.MD. 4

Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft., and improvised units.
MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :--- | :---: | :--- |
| U50 | Measurement - Volume of Irregular Figures | U50 | Volume of Rectangular Prisms |
|  |  | U50 | Volume of Irregular Figures |
|  |  | ISIP | Volume as an Attribute of Three-Dimensional Space |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 5.MD. 4

Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft., and improvised units.
MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :---: | :---: | :--- |
|  |  | ISIP | Quantifying Volume: Counting Same-Sized Units |
|  |  | ISIP | Integrating Fact Practice and Volume |
|  |  | ISIP | Calculating Volume in Multistep Word Problems |

## 5.MD. 5

Relate volume to the operations of multiplication and addition and solve real-world and mathematical problems involving volume.
a. Find the volume of a right rectangular prism with whole number side lengths by packing it with unit cubes, and 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. Represent threefold whole number products as volumes, e.g., to represent the Associative Property of Multiplication.
b. Apply the formulas $V=\ell \times w \times h$ and $V=B \times h$ for rectangular prisms to find volumes of right rectangular prisms with whole number edge lengths in the context of solving real-world and mathematical problems.
c. Recognize volume as additive. Find volumes of solid figures composed of two non-overlapping right rectangular prisms by adding the volumes of the non-overlapping parts, applying this technique to solve real-world problems.

| MP 1, 2, 3, 4, 5, 6, 7, 8 | Code | Teacher Resources |  |
| :---: | :--- | :---: | :--- |
| Code | Digital Student Experience | U50 | Volume of Rectangular Prisms |
| U50 | Measurement and Data Analysis - Volume of Irregular <br> Figures | U50 | Volume of Rectangular Figures |
|  |  | ISIP | Volume as an Attribute of Three-Dimensional Space |
|  |  | ISIP | Quantifying Volume: Counting Same-Sized Units |
|  |  |  |  |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 5.MD. 5

Relate volume to the operations of multiplication and addition and solve real-world and mathematical problems involving volume.
a. Find the volume of a right rectangular prism with whole number side lengths by packing it with unit cubes, and 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. Represent threefold whole number products as volumes, e.g., to represent the Associative Property of Multiplication.
b. Apply the formulas $\mathrm{V}=\ell \times \mathrm{w} \times \mathrm{h}$ and $\mathrm{V}=\mathrm{B} \times \mathrm{h}$ for rectangular prisms to find volumes of right rectangular prisms with whole number edge lengths in the context of solving real-world and mathematical problems.
c. Recognize volume as additive. Find volumes of solid figures composed of two non-overlapping right rectangular prisms by adding the volumes of the non-overlapping parts, applying this technique to solve real-world problems.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :---: | :---: | :--- |
|  |  | ISIP | Integrating Fact Practice and Volume |
|  |  | ISIP | Calculating Volume in Multistep Word Problems |

## Geometry

Graph points on the coordinate plane to solve real-world and mathematical problems.

## 5.G. 1

Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond, e.g., $x$-axis and $x$ coordinate, $y$-axis and $y$-coordinate.

MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :---: | :---: | :--- |
| U51 | Geometry - Graph Points in a Coordinate Plane | U51 | Plotting Points on a Coordinate Grid |

## Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

## 5.G. 1

Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond, e.g., $x$-axis and $x$ coordinate, $y$-axis and $y$-coordinate.

| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| :---: | :---: | :---: | :--- |
| Code | Digital Student Experience | Code | Teacher Resources |
|  |  | ISIP | Identifying and Plotting Ordered Pairs on the Coordinate <br> Plane |

## 5.G. 2

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.

| MP 1, 2, 3, 4, 5, 6, 7, 8 |  |  |  |
| :---: | :--- | :---: | :--- |
| Code | Digital Student Experience | Code | Teacher Resources |
| U51 | Computations and Algebraic Thinking - Comparing Points <br> on a Coordinate Plan | U51 | Graphing and Analyzing Lines |
|  |  | ISIP | Identifying and Plotting Ordered Pairs on the Coordinate <br> Plane |

## 5.G. 4

Classify two-dimensional figures in a hierarchy based on properties.
MP 1, 2, 3, 4, 5, 6, 7, 8

| Code | Digital Student Experience | Code | Teacher Resources |
| :---: | :---: | :---: | :--- |
|  |  | ISIP | Analyzing Properties of Two- and Three- Dimensional <br> Figures |

Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

Appendix
Classroom Resource

| General Graphic Organizers |  |
| :---: | :--- |
| Code |  |
| CR | Dot Paper |
| CR | Frayer Model |
| CR | Frayer Model (multiple) |
| CR | Grid Paper |
| CR | Grid Paoer (cm) |
| CR | Grid Paper (in) |
| CR | If-Then Diagram (Large) |
| CR | If-Then Diagrams |
| CR | Multiple Number Lines (10-100) |
| CR | Number Cards (1-10) |
| CR | Number Cards (1-20) |
| CR | Number Line 0-10 (Labeled and Blank) |
| CR | Number Line 0-100 (Labeled and Blank) |
| CR | Number Line 0-20 (Labeled and Blank) |
| CR | Number Line 0-50 (Labeled and Blank) |
| CR | Place Value Mat: 3-Column (Blank) |

Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

| General Graphic Organizers |  |  |
| :---: | :--- | :--- |
| Code |  |  |
| CR | Place Value Mat: 4-Column (Blank) |  |
| CR | Ten Frame |  |
| CR | Three-Digit Number Cards |  |
| CR | Types of Word Problems Anchor Chart |  |


| Number Sense |  |
| :---: | :--- |
| Code |  |
| CR | 100 Chart |
| CR | 120 Chart |
| CR | Base Ten Block Cards (0-50) |
| CR | Base Ten Block Cards (Multiples of Ten) |
| CR | Counting Strips (1-10) |
| CR | Counting Strips (1-20) |
| CR | Decimal Cards |
| CR | Decimal Grid: Thousandths |
| CR | Decimal Grids: Tenths and Hundredths |
| CR | Decimal Models: One Whole Through Thousandths |
| CR | Decimal Place Value: Grid and Chart - Hundredths |

Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

| Number Sense |  |
| :---: | :--- |
| Code |  |
| CR | Decimal Place Value: Grid and Chart - Tenths |
| CR | Decimal Place Value: Grid and Chart - Thousandths |
| CR | Even and Odd Chart |
| CR | Fraction Bars |
| CR | Fraction Equivalency Cards |
| CR | Fraction Model Graphic Organizer |
| CR | Multiple Representations of Numbers (1-10) |
| CR | Place Value Anchor Chart: Tens and Ones |
| CR | Place Value Mat: Multiple Representations to Millions (Labeled) |
| CR | Place Value Mat: Multiple Representations to Thousands (Labels) |
| CR | Place Value Mat: Tens and Ones (Labeled) |
| CR | Place Value Word Cards |
| CR | Ten Frame Dot Cards (Large) |
| CR | Ten Frame Dot Cards (Small) |


| Computations and Algebraic Thinking |  |  |
| :---: | :--- | :--- |
| Code |  |  |
| CR | Algebra Tiles |  |

Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

| Computations and Algebraic Thinking |  |
| :---: | :--- |
| Code |  |
| CR | Algebraic Strip Diagrams Resources |
| CR | Coordinate Plane |
| CR | Missing Factor Cards |
| CR | Multiplication/Division Fact Family Template |
| CR | Operation Symbol Cards |
| CR | Part Part Whole Mat |
| CR | Problem Solving Cards - Addition and Subtraction |
| CR | Subitizing Cards (1-5) |


| Measurement |  |  |  |  |  |  |  |  |
| :---: | :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Code |  |  |  |  |  |  |  |  |
| CR | Customary Unit Conversion Cards - Linear Measurement |  |  |  |  |  |  |  |
| CR | Customary Unit Conversion Cards - Liquid Measurement |  |  |  |  |  |  |  |
| CR | Linear Measurement Bundle (Includes the following five resources) |  |  |  |  |  |  |  |
| CR | Linear Measurement Anchor Chart |  |  |  |  |  |  |  |
| CR | Linear Measurement Body Benchmarks Anchor Chart |  |  |  |  |  |  |  |
| CR | Linear Measurement Graphic Organizer |  |  |  |  |  |  |  |
| CR | Linear Measurement Steps Anchor Chart |  |  |  |  |  |  |  |

Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics


| Data Analysis |  |  |
| :---: | :--- | :--- |
| Code |  | Teacher Resources |
| CR | Analyzing Line Plots |  |


| Geometry |  |
| :---: | :--- |
| Code |  |
| CR | Three-Dimensional Figure Nets |
| CR | Two-Dimensional Shapes |

## Parent Portal Lessons

| Early Math PK-1 |  |
| :---: | :--- |
| Code |  |
| PP | Fact Practice Addition Fast Tract |
| PP | Fact Practice Addition Road Racing Resources |
| PP | Fact Practice Building Sums with Dice |
| PP | Fact Practice Choose the Operation (Addition and Subtraction) |
| PP | Fact Practice Counting to Answer Math Questions |
| PP | Fact Practice Matching Numerals to Quantities |

Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

| Early Math PK-1 |  |
| :---: | :--- |
| Code |  |
| PP | Fact Practice Recognizing, Ordering and Counting |
| PP | Fact Practice Shake It! Make It! Solve It! (Addition) |
| PP | Fact Practice Skip Counting Raceway (Skip Counting by Fives and Tens) |
| PP | Fact Practice Skip Counting Raceway (Skip Counting by Twos) |
| PP | Fact Practice Sticky Sums |
| PP | Fact Practice Subtraction Fast Track |
| PP | Fact Practice Subtraction Road Racing |
| PP | Fact Practice Write, Tally, Dray (Addition) |
| PP | Practice Sorting by Attributes |


| Istation Math 2-5 |  |
| :---: | :--- |
| Code | $\quad$ Teacher Resources |
| PP | Fact Practice Adding on a Number Line |
| PP | Fact Practice Addition and Subtraction Fact Families |
| PP | Fact Practice Choose the Operation (Addition and Subtraction) |
| PP | Fact Practice Choose the Operation (Multiplication and Division) |
| PP | Fact Practice Fact Family Dominoes (Addition/Subtraction) |
| PP | Fact Practice Identifying Halves, Thirds, Fourths |

Istation Math Curriculum Correlated to the Common Core State Standards for Mathematics

| Istation Math 2-5 |  |
| :---: | :--- |
| Code |  |
| PP | Fact Practice Multiplication and Division Fact Family Triangles Resources |
| PP | Fact Practice Multiplication Fast Track |
| PP | Fact Practice Multiply Then Add |
| PP | Fact Practice Multominoes |
| PP | Fact Practice Shake It! Make It! Solve It! (Multiplication) |
| PP | Fact Practice Sticky Products |
| PP | Fact Practice Subtracting on a number Line |
| PP | Fact Practice Two-Digit Comparison: Who Has More? |
| PP | Fact Practice Two-Digit Comparison: Who Has Less? |
| PP | Fact Practice Three- and Four-Digit Comparison: Who Has More? |
| PP | Fact Practice Three-and Four-Digit Comparison: Who Has Less? |
| PP | Fact Practice Understanding Decimal Numbers |
| PP | Fact Practice Write, Expand, Sketch |
| PP | Fact Practice Writing Expressions from Scenarios |
| PP | Practice Linear Measurement Scavenger Hunt (Centimeter) |
| PP | Practice Linear Measurement Scavenger Hunt (Inches) |
| PP | Practice Plotting Points on a Coordinate Plane |

