

Istation® Early Math

Correlation of Standards

Colorado Academic Standards Mathematics

Grades: Preschool - 1



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Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics ~ Preschool



Standards	Objectives	Istation Application*	Istation Teacher Resources*	MP Standards
PK-12 Standards for Mathematical Practices (MP)				
The Standards for Mathematical Practice have been included in the Nature of Mathematics section in each grade level expectation of the Colorado Academic Standards. Each Mathematical Practice standard is listed as applicable to the right of each Istation Math resource with the corresponding code, MP1-8.				
MP1	Make sense of problems and persevere in solving them.			
MP2	Reason abstractly and quantitatively.			
MP3	Construct viable arguments and critique the reasoning of others.			
MP4	Model with mathematics.			
MP5	Use appropriate tools strategically.			
MP6	Attend to precision.			
MP7	Look for and make use of structure.			
MP8	Look for and express regularity in repeated reasoning.			
Standard 1. Number Sense, Properties, and Operations				
1. Quantities can be represented and counted.				
1.1a	Count and represent objects including coins to 10. (PFL)	Units 3, 5, & 6: <i>Rote Counting – "EZ With a Rock and Roll Beat"</i>	Units 3 & 5: <i>Build, Mix, and Fix</i> Unit 6: <i>Count with Me</i>	MP1 MP2 MP3 MP4 MP5 MP6 MP7
1.1b	Match a quantity with a numeral.	Units 4, 5, 6, & 7: <i>Cardinality – "Counting Cattle"</i>	Unit 4: <i>Counting in a Line</i> Unit 5: <i>Count to Find How Many</i> Unit 6: <i>Count with Me</i> Unit 7: <i>Counting a Scattered, Static Group</i> ISIP EM: <i>Numbers Up!</i> ISIP EM: <i>Pizza Pete</i> ISIP EM: <i>Fill Them Up!</i>	MP1 MP2 MP3 MP4 MP5 MP6 MP7

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics ~ Preschool



Standards	Objectives	Istation Application*	Istation Teacher Resources*	MP Standards
Standard 2. Patterns, Functions, and Algebraic Structures				
	Expectations for this standard are integrated into other standards at preschool through third grade.			
Standard 3. Data Analysis, Statistics, and Probability				
	Expectations for this standard are integrated into other standards at preschool through kindergarten.			
Standard 4. Shape, Dimension, and Geometric Relationships				
1. Shapes can be observed in the world and described in relation to one another.				
4.1a	Match, sort, group, and name basic shapes found in the natural environment.	Unit 1: Identifying Circles Unit 1: Identifying Squares Unit 1: Identifying Triangles Unit 3: Recognizing Shapes in the Environment	Unit 1 & Unit 3: Searching for Shapes Unit 3: We're Going on a Shape Hunt! ISIP EM: Shape Memory ISIP EM: Shape Books	MP1 MP2 MP3 MP4 MP5 MP6 MP7
4.1b	Sort similar groups of objects into simple categories based on attributes.	Unit 2: Sort by One Attribute Unit 4: Sort by One or Two Attributes Unit 9: Recognizing Shapes Regardless of Size Unit 9: Recognizing Shapes Regardless of Orientation	Unit 2: Folder Fun – Sorting by One Attribute Unit 4: Folder Fun – Sorting by Two Attributes Unit 9: Shapes of All Sizes Unit 9: Mighty Shape Match ISIP EM: Let's Group Them ISIP EM: Sorted or Not Sorted ISIP EM: Cookies of All Shapes ISIP EM: I Spy with My Little Eye ISIP EM: Shape Hunt	MP1 MP2 MP3 MP4 MP5 MP6 MP7

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics ~ Preschool



Standards	Objectives	Istation Application*	Istation Teacher Resources*	MP Standards
4.1c	Use words to describe attributes of objects.	Unit 2: Understanding Attributes of Objects	Unit 2: Folder Fun – Same and Different ISIP EM: Charting Attributes	MP1 MP2 MP3 MP4 MP5 MP6 MP7
4.1d	Follow directions to arrange, order, or position objects.		ISIP EM: Fries and Ketchup	
2. Measurement is used to compare objects.				
4.2b	Group objects according to their size using standard and non-standard forms (height, weight, length, or color brightness) of measurement.	Unit 10: Comparing Length at the Farm Stand Unit 10: Comparing Weight at the Farm Stand Unit 15: Comparing Height at Paul Bunyan Park	Unit 10: Directly Comparing Length Unit 10: Directly Comparing Weight Unit 15: How Tall?	MP1 MP2 MP3 MP4 MP5 MP6 MP7
4.2c	Sort coins by physical attributes such as color or size (PFL).	Unit 12: Identify Coins by Name Unit 14: Identify Coins by Value	Unit 12: Coin Name Cover Up Unit 12: Coin Value Cover Up	MP1 MP2 MP3 MP4 MP5 MP6 MP7

*Includes content released during the 2017-2018 school year.

□ End of Preschool □

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics ~ Kindergarten



Standards	Objectives	Istation Application*	Istation Teacher Resources*	MP Standards
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PK-12 Standards for Mathematical Practices (MP)

The Standards for Mathematical Practice have been included in the Nature of Mathematics section in each grade level expectation of the Colorado Academic Standards. Each Mathematical Practice standard is listed as applicable to the right of each Istation Math resource with the corresponding code, MP1-8.

MP1	Make sense of problems and persevere in solving them.
MP2	Reason abstractly and quantitatively.
MP3	Construct viable arguments and critique the reasoning of others.
MP4	Model with mathematics.
MP5	Use appropriate tools strategically.
MP6	Attend to precision.
MP7	Look for and make use of structure.
MP8	Look for and express regularity in repeated reasoning.

Standard 1. Number Sense, Properties, and Operations

1. Whole numbers can be used to name, count, represent, and order quantity.

	Use number names and the count sequence.			
1.1a	i. Count to 100 by ones and by tens.	Units 3, 5, 6, 7, 8, & 14: Rote Counting – “EZ with a Rock & Roll Beat” Unit 14: Skip Counting – “Hens by Tens”	Units 3 & 5: Build, Mix, and Fix Unit 6: Count with Me Unit 7: Calendar Counting Unit 8: Counting Mystery Unit 14: One Hundred Is a Lot Unit 14: Roll-Count-Cover ISIP EM: Skip Counting	MP1 MP2 MP3 MP4 MP5 MP6 MP7
	iii. Write numbers from 0 to 20. Represent a number of objects with a written numeral 0-20.	Units 5 & 11: Procedural – “Writing Our Numbers in New York City”	Unit 5: Writing Numbers 1-5 Unit 11: Writing Numbers Everywhere 0-10 ISIP EM: Number Go Fish ISIP EM: Show Me	MP1 MP2 MP3 MP4 MP5 MP6 MP7

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics ~ Kindergarten



Standards	Objectives	Istation Application*	Istation Teacher Resources*	MP Standards
1.1b	Count to determine the number of objects.			
	i. Apply the relationship between numbers and quantities and connect counting to cardinality.	Units 4, 5, 6, 7, 8, & 10: Cardinality – “Counting Cattle”	Unit 4: Counting in a Line Unit 5: Count to Find How Many Unit 6: Domino Dot Memory Unit 7: Counting a Scattered, Static Group Unit 8: Counting Sticks ISIP EM: Numbers Up! ISIP EM: Pizza Pete ISIP EM: Fill Them Up! ISIP EM: Set Stories ISIP EM: Ten Frame Puzzles (1-20) ISIP EM: Total Amount in a Scattered Group	MP1 MP2 MP3 MP4 MP5 MP6 MP7
	ii. Count and represent objects to 20.	Units 8 & 10: Cardinality – “Counting Cattle” (to 20)	Unit 8: Counting Sticks Unit 10: Park the Car and Write	MP1 MP2 MP3 MP4 MP5 MP6 MP7
1.1c	Compare and instantly recognize numbers			
	i. Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group.	Units 8 & 10: Cardinality – “Counting Cattle” (to 20)	Unit 8: Math Matching: Parts and Wholes Unit 10: Park the Car and Write ISIP EM: Show Me ISIP EM: Number Go Fish ISIP EM: 1-2-3 Snap! ISIP EM: Tower Power	MP1 MP2 MP3 MP4 MP5 MP6 MP7
	ii. Compare two numbers between 1 and 10 presented as written numerals.		ISIP EM: Letters in Our Names	
	iii. Identify small groups of objects fewer than five without counting.		ISIP EM: In a Flash (Perceptual) ISIP EM: Numbers and Dots Tic-Tac-Toe	

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics ~ Kindergarten



Standards	Objectives	Istation Application*	Istation Teacher Resources*	MP Standards
2. Composing and decomposing quantity forms the foundation for addition and subtraction.				
2a	Model and describe addition as putting together and adding to, and subtraction as taking apart and taking from, using objects or drawings.			
	i. Represent addition and subtraction with objects, fingers, mental images, drawings, sounds, acting out situations, verbal explanations, expressions, or equations.	Unit 6: Part Part Whole – Introduction of Concept Unit 7: Part Part Whole (within 5) – “Part Part Whole in New Orleans” Unit 7: Part Part Whole (within 5) – Quantity Pairs Unit 8: Part Part Whole (within 5) – Number Pairs Unit 13: Whole Part Part (within 10) “Chicago Pizza Blues”	Unit 7: Figuring Out Fives Unit 8: Math Matching – Parts and Wholes Unit 13: Whole in the Hand ISIP EM: Pizza Pete ISIP EM: Ten Frame Addition ISIP EM: Subtraction Mat	MP1 MP2 MP3 MP4 MP5 MP6 MP7
	ii. Solve addition and subtraction word problems, and add and subtract within 10.	Unit 6: Part Part Whole – Addition Stories to 5 Unit 10: Part Part Whole – Addition Stories to 10 Unit 14: Whole Part Part – Subtraction Stories within 10	Unit 6: Dogs and Cats on Mats (to 5) Unit 10: Dogs and Cats on Mats (to 10) Unit 12: Ten or Not Ten Unit 14: Start, Change, Result! ISIP EM: Addition Stories/Subtraction Stories ISIP EM: Subtraction Mat	MP1 MP2 MP3 MP4 MP5 MP6 MP7
	iii. Decompose numbers less than or equal to 10 into pairs in more than one way.	Unit 13: Whole Part Part (within 10) – “Chicago Pizza Blues” Unit 14: Whole Part Part – Subtraction Stories within 10	Unit 13: Whole in the Hand Unit 14: Start, Change, Result! ISIP EM: Count Back on the Train	MP1 MP2 MP3 MP4 MP5 MP6 MP7
	iv. For any number from 1 to 9, find the number that makes 10 when added to the given number.	Unit 9: Part Part Whole (within 10) – “Part Part Whole in New Orleans” Unit 12: Part Part Whole – Preparation for Compensation – Build a Band Unit 12: Part Part Whole – Preparation for Compensation – Select a Band	Unit 9: Roll to Find the Whole Unit 12: Ten or Not Ten ISIP EM: Ten Frame Addition	MP1 MP2 MP3 MP4 MP5 MP6 MP7
	v. Use objects including coins and drawings to model addition and subtraction problems to 10. (PFL)	Unit 6: Part Part Whole – Addition Stories to 5 Unit 10: Part Part Whole – Addition Stories to 10 Unit 13: Whole Part Part – Subtraction Stories within 10	Unit 6: Dogs and Cats on Mats (to 5) Unit 10: Dogs and Cats on Mats (to 10) Unit 12: Ten or Not Ten Unit 13: Separating Stories (within 10) ISIP EM: Addition Stories/Subtraction Stories	MP1 MP2 MP3 MP4 MP5 MP6 MP7

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics ~ Kindergarten



Standards	Objectives	Istation Application*	Istation Teacher Resources*	MP Standards
2b	Fluently add and subtract within 5.	Unit 7: Part Part Whole (within 5) – “Part Part Whole in New Orleans” Unit 7: Part Part Whole (within 5) – Quantity Pairs Unit 8: Part Part Whole (within 5) – Number Pairs	Unit 7: Figuring Out Fives Unit 8: Math Matching – Parts and Wholes FP: Fluency Fast Track (Addition) FP: Fluency Fast Track (Subtraction) FP: Sticky Sums FP: Roll-Write-Tally-Show (Addition)	MP1 MP2 MP3 MP4 MP5 MP6 MP7
2c	Compose and decompose numbers 11-19 to gain foundations for place value using objects and drawings.	Units 15 & 17: Pattern of the Count – Pattern of the Ones (to 50, to 100)	Units 15 & 17: Digit Deal	MP1 MP2 MP3 MP4 MP5 MP6 MP7
Standard 2. Patterns, Functions, and Algebraic Structures				
Expectations for this standard are integrated into other standards at preschool through third grade.				
Standard 3. Data Analysis, Statistics, and Probability				
Expectations for this standard are integrated into other standards at preschool through kindergarten.				
Standard 4. Shape, Dimension, and Geometric Relationships				
1. Shapes can be described by characteristics and position and created by composing and decomposing.				
	Identify and describe shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres).			
	i. Describe objects in the environment using names of shapes, and describe the relative positions of these objects using terms such as <i>above</i> , <i>below</i> , <i>beside</i> , <i>in front of</i> , <i>behind</i> , and <i>next to</i> .	Unit 3: Recognizing Shapes in the Environment	Unit 3: We're Going on a Shape Hunt ISIP EM: Fries and Ketchup	MP1 MP2 MP3 MP4 MP5 MP6 MP7

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics ~ Kindergarten



Standards	Objectives	Istation Application*	Istation Teacher Resources*	MP Standards
4.1a	ii. Correctly name shapes regardless of their orientation or overall size.	Unit 9: Recognizing Shapes Regardless of Orientation Unit 9: Recognizing Shapes Regardless of Size	Unit 9: Topsy Turvy Shapes Unit 9: Shapes of all Sizes	MP1 MP2 MP3 MP4 MP5 MP6 MP7
	iii. Identify shapes as two-dimensional or three-dimensional.	Unit 14: Identify Three-Dimensional Shapes	Unit 14: 3-D Shape-O	MP1 MP2 MP3 MP4 MP5 MP6 MP7
4.1b	Analyze, compare, create, and compose shapes.			
	i. Analyze and compare two- and three-dimensional shapes, in different sizes and orientations, using informal language to describe their similarities, differences, parts, and other attributes.	Unit 14: Compare Two-Dimensional Shapes	Unit 14: Odd One Out	MP1 MP2 MP3 MP4 MP5 MP6 MP7

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics ~ Kindergarten



Standards	Objectives	Istation Application*	Istation Teacher Resources*	MP Standards
2. Measurement is used to compare and order objects.				
4.2a	Describe and compare measurable attributes.			
	i. Describe measurable attributes of objects such as length or weight.	Unit 2: Attributes of Objects	Unit 2: Same and Different ISIP EM: Attribute Words for Objects	MP1 MP2 MP3 MP4 MP5 MP6 MP7
	ii. Describe several measurable attributes of a single object.		ISIP EM: Mystery Object Stories ISIP EM: Attribute Words for Objects	
	iii. Directly compare two objects with a measurable attribute in common, to see which has "more of/less of" the attribute and describe the difference.		ISIP EM: Graphing Stories – Determining Most and Least	
4.2b	Classify objects and count the number of objects in each category.			
	i. Classify objects into given categories.	Unit 2: Data Analysis in the Garage Unit 9: Classify and Count by Attribute	Unit 2: Graph What You See Unit 9: Folder Fun – Sorting by One Attribute and Count	MP1 MP2 MP3 MP4 MP5 MP6 MP7
	ii. Count the number of objects in each category.	Unit 9: Classify and Count by Attribute Unit 12: Classifying Diner Food	Unit 9: Folder Fun – Sorting by One Attribute and Count Unit 12: Folder Fun – Classify and Compare	MP1 MP2 MP3 MP4 MP5 MP6 MP7
	iii. Sort the categories by count.		ISIP EM: How Many More?	

*Includes content released during the 2017-2018 school year.

□ End of Kindergarten □

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics ~ Grade 1



Standards	Objectives	Istation Application*	Istation Teacher Resources*	MP Standards
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PK-12 Standards for Mathematical Practices (MP)

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MP1	Make sense of problems and persevere in solving them.
MP2	Reason abstractly and quantitatively.
MP3	Construct viable arguments and critique the reasoning of others.
MP4	Model with mathematics.
MP5	Use appropriate tools strategically.
MP6	Attend to precision.
MP7	Look for and make use of structure.
MP8	Look for and express regularity in repeated reasoning.

Standard 1. Number Sense, Properties, and Operations

1. The whole number system describes place value relationships within and beyond 100 and forms the foundation for efficient algorithms.

	Count to 120.			
1.1a	i. Count starting at any number less than 120.	Unit 14: Rote Counting – "EZ With a Rock and Roll Beat" (to 100)	Unit 14: One Hundred Is a Lot Unit 14: One Hundred Twenty Is Plenty!	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Within 120, read and write numerals and represent a number of objects with a written numeral.	Units 19 & 21: Pattern of the Count – Pattern of the Ones and Tens (to 50, to 100)	Units 19 & 21: The Arrow Says...	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics ~ Grade 1



Standards	Objectives	Istation Application*	Istation Teacher Resources*	MP Standards
1.1b	Represent and use the digits of a two-digit number.			
	i. Represent the digits of a two-digit number as tens and ones.	Units 15 & 17: Pattern of the Count – Pattern of the Ones (to 50, to 100)	Units 15 & 17: Digit Deal	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols $>$, $=$, and $<$.		ISIP EM: Base Ten Block Battle ISIP EM: Graphing Stories – Determining Most and Least	
1.1c	Use place value and properties of operations to add and subtract.			
	ii. Identify coins and find the value of a collection of two coins. (PFL)	Unit 16: Identify Values of Mixed Coins	Unit 16: Count the Change	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iii. Mentally find 10 more or 10 less than any two-digit number, without counting; explain the reasoning used.	Unit 21: Pattern of the Count – Pattern of the Ones and Tens (to 100) Unit 23: Pattern of the Count – Decade Numbers That Break the Pattern	Unit 21: The Arrow Says... Unit 23: Decade Numbers	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	v. Relate addition and subtraction strategies to a written method and explain the reasoning used.		ISIP EM: Fact Family Dominoes	

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics ~ Grade 1



Standards	Objectives	Istation Application*	Istation Teacher Resources*	MP Standards
2. Number relationships can be used to solve addition and subtraction problems.				
2a	Represent and solve problems involving addition and subtraction.			
	i. Use addition and subtraction within 20 to solve word problems.	Unit 10: Addition Stories 1-10 Unit 14: Subtraction Stories Within 10 Unit 20: Addition Stories 1-20 Unit 24: Subtraction Stories Within 20	Unit 10: Dogs and Cats on Mats (to 10) Unit 14: Subtraction Show Off (within 10) Unit 20: Adding with Addend Cards Unit 24: Subtraction Show Off (within 20)	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20.		ISIP EM: Three Amazing Addends ISIP EM: Magical Addends	
2b	Apply properties of operations and the relationship between addition and subtraction.			
	i. Apply properties of operations as strategies to add and subtract.		ISIP EM: Fact Family Dominoes	
2c	Add and subtract within 20.			
	i. Relate counting to addition and subtraction.		ISIP EM: Counting on Cards	
	ii. Add and subtract within 20 using multiple strategies.	Unit 19: Part Part Whole – "Part Part Whole in New Orleans" (within 20) Unit 22: Whole Part Part – "Chicago Pizza Blues" (within 20)	Unit 19: Relative Magnitude with Part Part Whole Unit 22: Beading the Difference ISIP EM: Fact Family Dominoes	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	iii. Demonstrate fluency for addition and subtraction within 10.		ISIP EM: Adding to Your Math Toolbox FP: Addition Fast Track FP: Subtraction Fast Track FP: Sticky Sums FP: Roll-Write-Tally-Show	

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics ~ Grade 1



Standards	Objectives	Istation Application*	Istation Teacher Resources*	MP Standards
2d	Use addition and subtraction equations to show number relationships.			
	ii. Determine the unknown whole number in an addition or subtraction equation relating three whole numbers.	Unit 16: Unknown Numbers in Addition Sentences	Unit 16: Beginning-Middle-End	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
Standard 2. Patterns, Functions, and Algebraic Structures				
	Expectations for this standard are integrated into other standards at preschool through third grade.			
Standard 3. Data Analysis, Statistics, and Probability				
1. Visual displays of information can be used to answer questions.				
3.1a	Represent and interpret data.			
	i. Organize, represent, and interpret data with up to three categories.	Unit 19: Data in Two- or Three-Column Graphs	Unit 19: Great Graphs ISIP EM: Graphing Three Ways ISIP EM: Graphing to the Rescue!	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
	ii. Ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.	Unit 19: Data in Two- or Three-Column Graphs	Unit 19: Great Graphs ISIP EM: Analyze and Add ISIP EM: Bar Graph Fill Up ISIP EM: How Many More?	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

Istation Math Curriculum Correlated to Colorado Academic Standards for Mathematics ~ Grade 1



Standards	Objectives	Istation Application*	Istation Teacher Resources*	MP Standards
Standard 4. Shape, Dimension, and Geometric Relationships				
1. Shapes can be described by defining attributes and created by composing and decomposing.				
4.1a	Distinguish between defining attributes versus non-defining attributes.	Unit 14: Identify Three-Dimensional Shapes	Unit 14: Shape Four-in-a-Row	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
4.1b	Build and draw shapes to possess defining attributes.	Unit 14: Compare Two-Dimensional Shapes	Unit 14: Odd One Out	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8
2. Measurement is used to compare and order objects and events.				
	Tell and write time.			
4.2b	i. Tell and write time in hours and half-hours using analog and digital clocks.	Unit 16: Time to the Hour in Tick Tock Park	Unit 16: On the Hour	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8

*Includes content released during the 2017-2018 school year.

□ End of Grade 1 □