Linking the Investigations to the Common Core State Standards: Grade 1

CCSS Domain and Standard	1, Breakfast menu!	2, Calculator magic	3, Tooth count	4, How old?	5, Animal legs	6, Odd or even?	7, Coffee time	8, Finger length	9, My school	10, Number sort	11, How far can you throw?	12, Doubling numbers
1.OA Operations and Algebraic Thinking												
Represent and solve problems involving addition and subtraction	•	•	•				•					
Understand and apply properties of operations and the relationship between addition and subtraction		•		•								
Add and subtract within 20	•	•	•		•		•					
Work with addition and subtraction equations		•										
1.NBT Number and Operations in Base Ten												
Extend the counting sequence	•					•	•					•
Understand place value						•				•		
Use place value understanding and properties of operations to add and subtract				•			•					•
1.MD Measurement and Data												
Measure lengths indirectly and by iterating length units								•	•		•	
Tell and write time							•					
Represent and interpret data	•		•	•	•	•	•	•		•	•	
1.G Geometry												
Reason with shapes and their attributes			•							•	•	

Linking the Investigations to the Common Core State Standards: Grade 2

CCSS Domain and Standard	1, Breakfast menu!	2, Calculator magic	3, Tooth count	4, How old?	5, Animal legs	6, Odd or even?	7, Coffee time	8, Finger length	9, My school	10, Number sort	11, How far can you throw?	12, Doubling numbers
2.OA Operations and Algebraic Thinking												
Represent and solve problems involving addition and subtraction	•	•	•				•					•
Add and subtract within 20	•	•	•		•		•					
Work with equal groups of objects to gain foundations for multiplication	•	•				•				•		
2.NBT Number and Operations in Base Ten												
Understand place value						•						
Use place value understanding and properties of operations to add and subtract			•	•			•					•
2.MD Measurement and Data												
Measure and estimate lengths in standard units								•	•		•	
Relate addition and subtraction to length											•	
Work with time and money							•					
Represent and interpret data	•		•	•	•	•	•	•		•	•	
2.G Geometry												
Reason with shapes and their attributes										•		

Linking the Investigations to the Common Core State Standards: Grade 3

CCSS Domain and Standard	1, Crazy counting	2, Apply the rule	3, Top secret	4, Park your car	5, Battery power	6, How big is one thousand?	7, Doggone dilemma!	8, Flag design	9, Reading backwards	10, Money bags	11, Length units	12, Common names
3.OA Operations and Algebraic Thinking												
Represent and solve problems involving multiplication and division				•			•			•		
Understand properties of multiplication and the relationship between multiplication and division												
Multiply and divide within 100	•	•		•			•			•		
Solve problems involving the four operations, and identify and explain patterns in arithmetic	•	•	•						•			
3.NBT Number and Operations in Base Ten												
Use place value understanding and properties of operations to perform multi-digit arithmetic			•			•	•		•	•		
3.NF Number and Operations—Fractions												
Develop understanding of fractions as numbers								•				
3.MD Measurement and Data												
Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects					•		•			•		
Represent and interpret data				•							•	•
Geometric measurement: understand concepts of area and relate area to multiplication and to addition				•		•						
Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures				•							•	
3.G Geometry												
Reason with shapes and their attributes				•				•				

CCSS Domain and Standard	13, Stamp arrays	14, Add four numbers	15, Plane launch	16, Deliver the mail	17, Well read!	18, High flyer	19, Home sweet home	20, Right or left?	21, Traffic lights	22, Lengthy names	23, Towering students	24, Will it be white?
3.OA Operations and Algebraic Thinking												
Represent and solve problems involving multiplication and division	•				•	•			•			
Understand properties of multiplication and the relationship between multiplication and division	•											
Multiply and divide within 100	•				•	•			•			
Solve problems involving the four operations, and identify and explain patterns in arithmetic		•				•					•	
3.NBT Number and Operations in Base Ten												
Use place value understanding and properties of operations to perform multi-digit arithmetic						•					•	

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Linking the Investigations to the Common Core State Standards: Grade 3 *(cont'd)*

CCSS Domain and Standard	13, Stamp arrays	14, Add four numbers	15, Plane launch	16, Deliver the mail	17, Well read!	18, High flyer	19, Home sweet home	20, Right or left?	21, Traffic lights	22, Lengthy names	23, Towering students	24, Will it be white?
3.NF Number and Operations—Fractions												
Develop understanding of fractions as numbers												
3.MD Measurement and Data												
Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects			•		•				•			
Represent and interpret data			•	•				•		•		•
Geometric measurement: understand concepts of area and relate area to multiplication and to addition	•		•				•					
Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures					•		•					
3.G Geometry												
Reason with shapes and their attributes	•		•	•			•					

Linking the Investigations to the Common Core State Standards: Grade 4

CCSS Domain and Standard	1, Crazy counting	2, Apply the rule	3, Top secret	4, Park your car	5, Battery power	6, How big is one thousand?	7, Doggone dilemma!	8, Flag design	9, Reading backwards	10, Money bags	11, Length units	12, Common names
4.OA Operations and Algebraic Thinking												
Use the four operations with whole numbers to solve problems		•		•			•			•		
Gain familiarity with factors and multiples	•											
Generate and analyze patterns		•							•			
4.NBT Number and Operations in Base Ten												
Generalize place value understanding for multi-digit whole numbers					•		•					
Use place value understanding and properties of operations to perform multi-digit arithmetic		•	•				•		•	•		
4.NF Number and Operations—Fractions												
Extend understanding of fraction equivalence and ordering								•				
Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers								•				
Understand decimal notation for fractions, and compare decimal fractions												
4.MD Measurement and Data												
Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit				•	•	•	•				•	•

CCSS Domain and Standard	1, Crazy counting	2, Apply the rule	3, Top secret	4, Park your car	5, Battery power	6, How big is one thousand?	7, Doggone dilemma!	8, Flag design	9, Reading backwards	10, Money bags	11, Length units	12, Common names
Represent and interpret data												•
Geometric measurement: understand concepts of angle and measure angles												
4.G Geometry												
Draw and identify lines and angles, and classify shapes by properties of their lines and angles				•				•				

CCSS Domain and Standard	13, Stamp arrays	14, Add four numbers	15, Plane launch	16, Deliver the mail	17, Well read!	18, High flyer	19, Home sweet home	20, Right or left?	21, Traffic lights	22, Lengthy names	23, Towering students	24, Will it be white?
4.OA Operations and Algebraic Thinking												
Use the four operations with whole numbers to solve problems	•				•				•			
Gain familiarity with factors and multiples	•							•				
Generate and analyze patterns		•				•						
4.NBT Number and Operations in Base Ten												
Generalize place value understanding for multi-digit whole numbers												
Use place value understanding and properties of operations to perform multi-digit arithmetic					•	•						
4.NF Number and Operations—Fractions												
Extend understanding of fraction equivalence and ordering												
Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers												
Understand decimal notation for fractions, and compare decimal fractions				•	•			•		•		•
4.MD Measurement and Data												
Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit				•	•	•		•		•		•
Represent and interpret data									•		•	•
Geometric measurement: understand concepts of angle and measure angles			•									
4.G Geometry												
Draw and identify lines and angles, and classify shapes by properties of their lines and angles			•	•								

Linking the Investigations to the Common Core State Standards: Grade 5

CCSS Domain and Standard	1, Clever numbers	2, Create a crossword	3, Alphabet symmetry	4, Stepping out!	5, Divide by three	6, Traffic jam!	7, Smart packaging	8, Anyone for tennis?	9, Four 4s	10, Clock design	11, Angles in shapes	12, Sample me!
5.OA Operations and Algebraic Thinking												
Write and interpret numerical expressions		•							•	•		
Analyze patterns and relationships												
5.NBT Number and Operations in Base Ten												
Understand the place value system		•								•		•
Perform operations with multi-digit whole numbers and with decimals to hundredths	•	•		•	•	•				•	•	
5.NF Number and Operations—Fractions												
Use equivalent fractions as a strategy to add and subtract fractions		•										
Apply and extend previous understandings of multiplication and division to multiply and divide fractions		•										
5.MD Measurement and Data												
Convert like measurement units within a given measurement system				•		•				•		
Represent and interpret data												•
Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition								•				
5.G Geometry												
Graph points on the coordinate plane to solve real-world and mathematical problems												
Classify two-dimensional figures into categories based on their properties			•								•	

CCSS Domain and Standard	13, Ratio	14, Good-luck letters	15, Tired digits	16, Dispose of plastic	17, Magical hats	18, Front-page news	19, Reach and height	20, Puzzling tangrams	21, Drink and count	22, Take a shortcut	23, Stretch your writing!	24, Feel the pulse
5.OA Operations and Algebraic Thinking												
Write and interpret numerical expressions												
Analyze patterns and relationships		•										
5.NBT Number and Operations in Base Ten												
Understand the place value system	•		•			•				•		•
Perform operations with multi-digit whole numbers and with decimals to hundredths	•		•	•		•	•		•	•	•	•
5.NF Number and Operations—Fractions												
Use equivalent fractions as a strategy to add and subtract fractions												
Apply and extend previous understandings of multiplication and division to multiply and divide fractions												

CCSS Domain and Standard	13, Ratio	14, Good-luck letters	15, Tired digits	16, Dispose of plastic	17, Magical hats	18, Front-page news	19, Reach and height	20, Puzzling tangrams	21, Drink and count	22, Take a shortcut	23, Stretch your writing!	24, Feel the pulse
5.MD Measurement and Data												
Convert like measurement units within a given measurement system	•		•	•	•		•		•		•	
Represent and interpret data						•						
Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition												
5.G Geometry												
Graph points on the coordinate plane to solve real-world and mathematical problems												
Classify two-dimensional figures into categories based on their properties					•			•				

Linking the Investigations to the Common Core State Standards: Grade 6

CCSS Domain and Standard	1, Clever numbers	2, Create a crossword	3, Alphabet symmetry	4, Stepping out!	5, Divide by three	6, Traffic jam!	7, Smart packaging	8, Anyone for tennis?	9, Four 4s	10, Clock design	11, Angles in shapes	12, Sample me!
6.RP Ratios and Proportional Relationships												
Understand ratio concepts and use ratio reasoning to solve problems				•		•						•
6.NS The Number System												
Apply and extend previous understandings of multiplication and division to divide fractions by fractions		•										
Compute fluently with multi-digit numbers and find common factors and multiples	•	•		•	•	•				•		•
Apply and extend previous understandings of numbers to the system of rational numbers		•										
6.EE Expressions and Equations												
Apply and extend previous understandings of arithmetic to algebraic expressions		•							•	•	•	
Reason about and solve one-variable equations and inequalities		•										
Represent and analyze quantitative relationships between dependent and independent variables												
6.G Geometry												
Solve real-world and mathematical problems involving area, surface area, and volume			•				•					
6.SP Statistics and Probability												
Develop understanding of statistical variability												
Summarize and describe distributions												•

Linking the Investigations to the Common Core State Standards: Grade 6 *(cont'd)*

CCSS Domain and Standard	13, Ratio	14, Good-luck letters	15, Tired digits	16, Dispose of plastic	17, Magical hats	18, Front-page news	19, Reach and height	20, Puzzling tangrams	21, Drink and count	22, Take a shortcut	23, Stretch your writing!	24, Feel the pulse
6.RP Ratios and Proportional Relationships												
Understand ratio concepts and use ratio reasoning to solve problems	•			•					•		•	
6.NS The Number System												
Apply and extend previous understandings of multiplication and division to divide fractions by fractions												
Compute fluently with multi-digit numbers and find common factors and multiples	•		•	•			•			•		•
Apply and extend previous understandings of numbers to the system of rational numbers												
6.EE Expressions and Equations												
Apply and extend previous understandings of arithmetic to algebraic expressions		•										
Reason about and solve one-variable equations and inequalities							•					
Represent and analyze quantitative relationships between dependent and independent variables												
6.G Geometry												
Solve real-world and mathematical problems involving area, surface area, and volume					•			•				
6.SP Statistics and Probability												
Develop understanding of statistical variability						•						•
Summarize and describe distributions						•			•		•	•