INVESTIGATIONS 3
IN NUMBER, DATA, AND SPACE®

SAVVAS
LEARNING COMPANY

Kindergarten

Concept	Sub-categories	Title	Unit	Session(s)
Number	Counting	Counting to 10	1	1.1,2.5
Number	Counting	Counting to Take Attendance	1	1.1,1.2,2.5
Data	Attributes	Describing Attribute Blocks	1	2.4,3.4
Number	Comparing and Ordering	Equal	1	2.1,2.5
Number	Counting	How Many? (0–6)	1	2.2, 3.2
Number	Comparing and Ordering	More	1	2.4,3.1
Data	Attributes	Same and Different	1	1.4,2.2
Data	Collecting Data	Today's Question	1	3.4,3.5
Geometry	2-D Shapes & 3-D Shapes	Where Is It?	1	1.2,1.5
Number	Counting	Counting Jar	2	1.3,1.8,2.8
Number	Counting	Counting to 10	2	1.1
Number	Counting	Counting to Take Attendance	2	1.1
Number	Comparing and Ordering	Equal	2	2.4
Number	Comparing and Ordering	Fewer	2	1.2,2.4
Number	Counting	How Many? (7-8)	2	1.3
Number	Counting	How Many? (9-10)	2	1.9
Number	Comparing and Ordering	More	2	1.2,2.4
Number	Number Names	Numbers 0 to 30	2	1.2
Number	Comparing and Ordering	Ordering Fewest to Most	2	2.10,2.12
Measurement	Length	Shorter Than or Longer Than	2	2.1,2.2,2.9
Number	Counting	Ten Frames	2	1.7,2.3
Measurement	Types of Measurement	Things We Measure	2	2.2
Number	Counting	Ways to Count	2	1.3,1.5,1.9
Geometry	2-D Shapes	Attributes of 2-D Shapes	3	1.2, 1.3
Geometry	2-D Shapes	Describing Circles	3	1.2

Geometry	2-D Shapes	Describing Rectangles	3	1.2
Geometry	2-D Shapes	Describing Squares	3	1.3
Geometry	2-D Shapes	Describing Triangles	3	1.3
Geometry	2-D Shapes & 3-D Shapes	Geometry and Shapes in the World	3	1.3
Geometry	2-D Shapes	Pattern Block Puzzles	3	2.2
Geometry	2-D Shapes	Pattern Block Shapes	3	1.4,2.3
Geometry	2-D Shapes	Types of 2-D Shapes	3	1.1,2.7
Geometry	2-D Shapes & 3-D Shapes	What is 2-D? What is 3-D?	3	1.1
Operations	Number Composition	Arranging Five Tiles	4	3.2,3.3
Number	Counting	Counting Jar	4	3.2
Number	Comparing and Ordering	Fewer	4	1.4
Measurement	Length	Measuring with Cubes	4	1.2
Number	Comparing and Ordering	More	4	1.4
Operations	Addition	Notation for Addition	4	3.5
Number	Number Names	Numbers 0 to 30	4	1.2,1.7,1.9
Number	Counting	One More and One Fewer	4	2.3,2.4,2.7,3.5
Measurement	Length	Shorter Than or Longer Than	4	1.1,1.4
Number	Counting	Ten Frames	4	1.6
Measurement	Types of Measurement	Things We Measure	4	1.1
Operations	Number Composition	Ways to Make Six	4	3.3,3.4
Geometry	3-D Shapes	Attributes of 3-D Shapes	5	1.4,1.7
Geometry	3-D Shapes	Build a Block	5	1.6,1.8
Geometry	3-D Shapes	Describing Cones	5	1.3
Geometry	3-D Shapes	Describing Cubes	5	1.2
Geometry	3-D Shapes	Describing Cylinders	5	1.3
Geometry	3-D Shapes	Describing Triangular Prisms	5	1.6
Geometry	2-D Shapes & 3-D Shapes	Geometry and Shapes in the World	5	1.10
Geometry	3-D Shapes	Matching Geoblock Faces	5	1.4
Operations	Addition	Notation for Addition	5	1.10
Geometry	2-D Shapes	Types of 2-D Shapes	5	1.10
Geometry	3-D Shapes	Types of 3-D Shapes	5	1.1,1.10
Geometry	2-D Shapes & 3-D Shapes	What is 2-D? What is 3-D?	5	1.1,1.6,1.9
Geometry	2-D Shapes & 3-D Shapes	Where Is It?	5	1.1

Operations	Story Problems	A Story Problem About Combining	6	2.6
Operations	Story Problems	A Story Problem About How Many of Each?	6	3.1,3.4
Operations	Story Problems	A Story Problem About Removing	6	2.7
Operations	Story Problems	A Story Problem About Two Groups	6	2.3
Number	Counting	Counting Jar	6	1.1,1.6
Number	Counting	Counting on the Number Line	6	1.2
Number	Comparing and Ordering	Fewer	6	2.2
Measurement	Length	Measuring with Cubes	6	1.2
Number	Comparing and Ordering	More	6	2.2
Operations	Addition	Notation for Addition	6	2.1,2.3
Operations	Subtraction	Notation for Subtraction	6	2.4
Number	Number Names	Numbers 0 to 30	6	1.4
Number	Comparing and Ordering	Ordering Fewest to Most	6	1.5
Measurement	Length	Shorter Than or Longer Than	6	1.1
Number	Counting	Ten Frames	6	2.4
Number	Counting	Ways to Count	6	1.3,1.4
Operations	Number Composition	Ways to Make Six	6	3.3,3.4
Data	Collecting Data	A Food Survey	7	2.2
Data	Collecting Data	A Soccer Survey	7	2.1
Geometry	2-D Shapes	Attributes of 2-D Shapes	7	1.1
Number	Counting	Counting by 10s	7	3.7
Number	Counting	Counting by 2s	7	3.4
Number	Counting	Counting Jar	7	2.2,3.4
Data	Attributes	Describing Attribute Blocks	7	1.1,1.3
Number	Comparing and Ordering	Ordering Fewest to Most	7	1.2
Geometry	2-D Shapes	Pattern Block Shapes	7	1.2
Data	Attributes	Same and Different	7	1.1
Data	Attributes	Sorting Buttons	7	1.3
Measurement	Weight and Mass	Comparing Weight	8	3.1,3.2,3.4
Number	Counting	Counting by 10s	8	1.5
Number	Counting	Counting Jar	8	1.5,2.2,2.7,3.1
Operations	Number Composition	Making 10	8	2.1,2.2,2.4

Measurement	Weight and Mass	Measuring Weight	8	3.1,3.2,3.4
Measurement	Length	Measuring with Cubes	8	2.3
Operations	Addition	Notation for Addition	8	1.4,1.5
Operations	Subtraction	Notation for Subtraction	8	1.1,1.3
Number	Number Names	Numbers 0 to 30	8	2.2
Measurement	Length	Shorter Than or Longer Than	8	2.3
Operations	Story Problems	Solving Story Problems	8	1.2
Operations	Number Composition	Teen Numbers	8	2.4,2.5,2.6,2.9
Number	Counting	Ten Frames	8	2.2
Number	Counting	Ways to Count	8	2.1,2.3

INVESTIGATIONS 3
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Grade 1

Concept	Sub-categories	Title	Unit	Session(s)
Number	Counting	Counting Back	1	3.1
Number	Counting	Counting Forward	1	1.1
Number	Counting	Counting on the Number Line	1	1.1,2.2,3.1
Measurement	Time	Daily Schedule	1	1.4
Number	Comparing and Ordering	Equal	1	2.2
Number	Comparing and Ordering	Fewer	1	2.2
Operations	Addition	Math Symbols: Addition and Subtraction	1	2.4,2.6,3.2,3.4
Operations	Subtraction	Math Symbols: Addition and Subtraction	1	2.4,2.6,3.2,3.4
Number	Comparing and Ordering	Math Symbols: Comparing	1	2.5,3.6
Number	Number Names	Numbers 0 to 120	1	1.2,1.3
Number	Comparing and Ordering	One or Two Fewer	1	2.1,3.1
Number	Counting	One or Two Fewer	1	2.1,3.1
Number	Comparing and Ordering	One or Two More	1	2.1,3.1
Number	Counting	One or Two More	1	2.1,3.1
Geometry	2-D Shapes	Pattern Block Shapes	1	1.1, 1.2
Operations	Story Problems	Solving Addition Problems	1	2.4
Operations	Story Problems	Solving Subtraction Problems	1	3.2,3.5,3.6
Operations	Number Composition	Teen Numbers	1	1.4
Number	Counting	Ten Frames	1	1.3
Number	Counting	Ways to Count	1	1.2,1.5
Number	Counting	Why Do We Count?	1	1.1
Geometry	2-D Shapes	Attributes of 2-D Shapes: Sides and Vertices	2	2.2,2.5
Geometry	2-D Shapes & 3-D Shapes	Combining Shapes	2	1.4,1.5
Geometry	3-D Shapes	Combining Shapes	2	1.4,1.5
Geometry	2-D Shapes	Filling Shapes with More and Fewer	2	1.2,1.7
Geometry	2-D Shapes & 3-D Shapes	Geometry and Shapes in the World	2	1.1, 1.2, 2.3

Geometry	2-D Shapes	Naming and Describing 2-D Shapes	2	2.2,2.3
Geometry	2-D Shapes	Pattern Block Shapes	2	1.1, 1.2
Geometry	2-D Shapes	Quadrilaterals: Shapes with 4 Sides	2	2.3
Geometry	2-D Shapes	Sorting Shapes	2	2.1
Geometry	2-D Shapes	Triangles: Shapes with 3 Sides	2	2.2,2.4
Geometry	2-D Shapes & 3-D Shapes	What is 2-D? What is 3-D?	2	1.1
Operations	Addition	Adding Within 20	3	2.3
Number	Comparing and Ordering	Comparing Numbers	3	1.3
Number	Counting	Counting Back	3	2.2
Number	Counting	Counting by Groups	3	4.2
Number	Counting	Counting Forward	3	2.2
Operations	Addition	Does Order Matter?	3	2.3, 3.1, 3.4
Operations	Addition	Equations	3	1.1,1.2
Operations	Subtraction	Equations	3	1.3
Operations	Story Problems	How Many of Each?: Both Addends Unknown	3	2.4
Operations	Addition	Math Symbols: Addition and Subtraction	3	2.6,2.8,3.1,3.4,3.5
Operations	Subtraction	Math Symbols: Addition and Subtraction	3	2.6,2.8,3.1,3.4,3.5
Number	Comparing and Ordering	Math Symbols: Comparing	3	1.3,3.3,3.4
Operations	Addition	Notation for Addition	3	1.1,1.2,3.2
Operations	Subtraction	Notation for Subtraction	3	1.3,3.3
Number	Number Names	Numbers 0 to 120	3	4.3
Number	Number Names	Patterns in Numbers	3	4.3
Operations	Story Problems	Solving Addition Problems	3	3.1
Operations	Subtraction	Subtracting Within 20	3	3.3
Operations	Number Composition	Teen Numbers	3	1.2,1.4
Number	Counting	Ten Frames	3	1.2
Number	Place Value	Ten Ones Is One Ten	3	1.2,1.4
Number	Counting	The 100 Chart	3	4.4,4.5
Number	Counting	The 120 Chart	3	4.6
Operations	Number Composition	Today's Number: 8	3	3.3
Number	Counting	Ways to Count	3	4.1,4.2

Measurement	Length	At Least	4	1.5
Measurement	Length	Comparing Lengths	4	1.5,1.6,1.8
Number	Fractions	Equal Parts of a Whole	4	2.1,2.2,2.3,2.4,2.5
Measurement	Length	Inches	4	1.5
Measurement	Length	Longer Than / Shorter Than	4	1.1,1.2,1.3
Measurement	Length	Measuring Length	4	1.1,1.3,1.4
Measurement	Time	Measuring Time	4	1.2
Measurement	Length	Measuring with Units	4	1.4
Number	Fractions	One Fourth	4	2.4,2.5
Number	Fractions	One Half	4	2.1,2.2,2.3
Measurement	Length	Partial Units	4	1.3,1.4
Measurement	Length	Strategies for Measuring Accurately	4	1.5
Measurement	Time	Telling Time to the Half-Hour	4	2.1
Measurement	Time	Telling Time to the Hour	4	1.2,2.1
Measurement	Types of Measurement	Things We Measure	4	1.1,1.3
Operations	Number Composition	Combinations of 10	5	1.1,1.2,1.4
Operations	Story Problems	Crayon Puzzles: One Addend Unknown	5	1.5,1.6,1.7
Operations	Addition	Equations	5	1.2
Number	Comparing and Ordering	How Many More? / How Many Fewer?	5	3.3,3.4,3.5
Operations	Story Problems	How Many of Each?: Both Addends Unknown	5	1.1
Number	Comparing and Ordering	Math Symbols: Comparing	5	2.7
Operations	Story Problems	Solving Addition Problems	5	2.2
Operations	Story Problems	Solving Subtraction Problems	5	2.4
Operations	Story Problems	The Penny Jar: Unknown Change	5	3.2,3.3,3.5,3.6
Operations	Number Composition	Using Combinations of 10	5	2.1
Operations	Story Problems	Comparison Problems	6	1.7,1.8,1.9
Data	Collecting Data	Data and Surveys	6	1.2,1.3,1.4,1.6
Data	Analyzing Data	Data in 3 Categories	6	2.1,2.2
Operations	Story Problems	The Penny Jar: Unknown Start	6	1.3,1.5,2.3
Data	Representing Data	Ways to Represent Data	6	1.2,1.3
Data	Analyzing Data	What Did We Learn?	6	2.2

Operations	Addition	Adding a 2-Digit Number and a 1-Digit Numbe	7	3.2, 3.5
Operations	Addition	Adding a 2-Digit Number and a Multiple of 10	7	3.1
Operations	Addition	Adding or Subtracting 10	7	2.6
Operations	Subtraction	Adding or Subtracting 10	7	2.6
Operations	Addition	Adding Tens and Ones	7	3.3,3.6
Operations	Number Composition	Combinations of 10	7	2.4,3.1
Operations	Comparing and Ordering	Comparing Numbers	7	2.4
Operations	Counting	Counting Back	7	1.6
Operations	Counting	Counting by Groups	7	1.1,1.2,1.3
Operations	Counting	Counting on the Number Line	7	1.4
Operations	Place Value	How Many Tens?	7	1.5,1.6,1.8
Operations	Comparing and Ordering	Math Symbols: Comparing	7	2.2
Operations	Number Names	Numbers 0 to 120	7	1.4
Operations	Subtraction	Subtracting a Multiple of 10 From a Multiple of	7	1.7,1.8
Operations	Time	Telling Time to the Half-Hour	7	2.1
Number	Place Value	Tens and Ones	7	2.2, 2.4
Number	Counting	The 120 Chart	7	1.4
Operations	Number Composition	Using Combinations of 10	7	2.4,3.1
Geometry	3-D Shapes	Attributes of 3-D Shapes: Faces, Edges, and Vertice	8	1.3,1.6
Geometry	2-D Shapes	Combining Shapes	8	1.3
Geometry	3-D Shapes	Cones, Spheres and Cylinders	8	1.1,1.2
Geometry	3-D Shapes	Drawing 3-D Shapes	8	1.7,1.8
Geometry	3-D Shapes	Geoblock Footprints	8	1.2
Geometry	2-D Shapes & 3-D Shapes	Geometry and Shapes in the World	8	1.1
Geometry	3-D Shapes	Naming and Describing 3-D Shapes	8	1.2
Geometry	3-D Shapes	Prisms and Pyramids	8	1.1,1.2,1.3,1.6
Geometry	2-D Shapes & 3-D Shapes	What is 2-D? What is 3-D?	8	1.1,1.7

INVESTIGATIONS 3
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Grade 2

Concept	Sub-categories	Title	Unit	Session(s)
Operations	Story Problems	A Subtraction Story Problem: Giving Away Baseball Cards	1	4.2
Operations	Addition	Adding Within 20	1	2.2, 2.5
Operations	Story Problems	An Addition Story Problem About Children	1	4.1
Number	Counting	Counting by 2s, 5s, and 10s	1	3.1,3.5
Number	Counting	Counting by Groups	1	1.5,3.5
Operations	Story Problems	Enough for the Class	1	3.1
Operations	Addition	Equations and Equivalent Expressions	1	2.1
Operations	Subtraction	Equations and Equivalent Expressions	1	2.1
Operations	Addition	Learning Addition Facts	1	2.5
Operations	Subtraction	Learning Subtraction Facts	1	3.2
Number	Comparing and Ordering	Math Symbols: Comparing	1	1.1
Measurement	Time	Measuring Time	1	1.6
Number	Counting	Money	1	1.3,1.5,3.3,3.4
Number	Counting	Number Line	1	1.1,1.4
Operations	Addition	Number Strings	1	2.3
Number	Number Names	Numbers 0 to 120	1	1.4,1.5
Geometry	2-D Shapes	Pattern Block Shapes	1	1.2
Operations	Subtraction	Subtracting Within 20	1	2.6
Measurement	Time	Telling Time to the Hour	1	1.6, 2.1
Number	Counting	The 100 Chart	1	1.4
Number	Counting	Ways to Count	1	1.2
Number	Counting	Why Do We Count?	1	1.2
Geometry	2-D Shapes	Attributes of 2-D Shapes: Sides, Vertices, and Angles	2	2.1,2.2,2.4
Geometry	3-D Shapes	Attributes of 3-D Shapes: Faces, Edges, and Vertices	2	1.3
Geometry	2-D Shapes	Congruent Rectangles	2	2.3
Geometry	3-D Shapes	Drawing 3-D Shapes	2	1.2

Number	Fractions	Equal Parts of a Whole	2	3.1,3.5,3.8
Geometry	2-D Shapes & 3-D Shapes	Geometry and Shapes in the World	2	1.1
Number	Fractions	More Than One Fourth	2	3.6,3.8
Number	Fractions	More Than One Third	2	3.6,3.8
Geometry	3-D Shapes	Naming and Describing 3-D Shapes	2	1.3
Geometry	2-D Shapes	Naming and Describing Polygons	2	2.1
Number	Fractions	One Fourth	2	3.4,3.8
Number	Fractions	One Half	2	3.1,3.2,3.3,3.8
Number	Fractions	One Third	2	3.5,3.8
Geometry	2-D Shapes	Polygons	2	1.1
Geometry	2-D Shapes	Quadrilaterals: Shapes with 4 Sides	2	2.2,2.4
Geometry	2-D Shapes	Rectangles and Squares	2	2.2,2.6
Geometry	2-D Shapes	Rectangular Arrays	2	2.3,2.5
Geometry	2-D Shapes	Right Angles	2	2.2,2.4
Geometry	2-D Shapes & 3-D Shapes	What is 2-D? What is 3-D?	2	1.1
Operations	Story Problems	A Story Problem About an Unknown Change: Combining	3	3.1,3.3
Operations	Story Problems	A Story Problem About an Unknown Change: Removing	3	3.1,3.3
Operations	Story Problems	A Story Problem About an Unknown Start: Combining	3	3.4,3.6
Operations	Story Problems	A Story Problem About an Unknown Start: Removing	3	3.4,3.6
Operations	Story Problems	A Subtraction Story Problem: Giving Away Stickers	3	2.4,2.6,2.8
Operations	Story Problems	Addition Story Problems About Stickers	3	2.4,2.6,2.8
Number	Counting	Coin Values and Equivalencies	3	1.3,2.7,2.9
Operations	Addition	Learning Addition Facts	3	2.1,2.2
Number	Place Value	Representing Place Value: Hundreds, Tens, and Ones	3	1.2
Number	Place Value	Sticker Station: Tens and Ones	3	1.1,1.2,3.2
Operations	Story Problems	Story Problems with Both Addends Unknown	3	1.3,1.6
Operations	Story Problems	Story Problems with One Addend Unknown	3	1.4,1.5,1.7
Number	Counting	The 100 Chart	3	3.5
Data	Representing Data	Data on a Bar Graph	4	1.2,1.4,1.5
Data	Representing Data	Data on a Picture Graph	4	1.1
Data	Representing Data	Line Plots	4	2.1,2.4,2.5
Data	Collecting Data	Making Categories	4	1.1,1.3,1.5
Measurement	Time	Parts of an Hour	4	2.3

Measurement	Time	Telling Time to the Half-Hour	4	1.3
Measurement	Time	Telling Time to the Quarter Hour	4	1.3,1.4,1.6
Data	Representing Data	Venn Diagrams	4	1.3,1.4,1.5
Operations	Addition	Adding and Subtracting 10 or 100	5	2.4
Number	Counting	Coin Values and Equivalencies	5	1.4
Number	Comparing and Ordering	Comparing 3-Digit Numbers	5	2.3
Operations	Addition	Learning Addition Facts	5	1.6
Operations	Subtraction	Learning Subtraction Facts	5	1.1,2.4
Number	Counting	Money	5	1.4
Number	Place Value	Representing Place Value: Hundreds, Tens, and Ones	5	2.2,2.3,2.5
Number	Counting	Skip Counting by 5s and 10s	5	3.3
Number	Place Value	Sticker Station: Tens and Ones	5	1.3
Operations	Story Problems	Story Problems About Comparing: Bigger Unknown	5	3.2
Operations	Story Problems	Story Problems with One Addend Unknown	5	1.3,1.5
Operations	Addition	Strategies for Adding 2-Digit Numbers	5	3.1,3.4,3.5
Measurement	Time	Telling Time to the Quarter Hour	5	1.1,3.1
Number	Counting	The 100 Chart	5	1.2
Operations	Addition	Ways to Make 100	5	2.1
Measurement	Length	Choosing A Measurement Tool	6	2.2,2.3
Measurement	Length	Different Ways to Measure Length	6	1.1,1.4
Measurement	Length	Half Units	6	1.4
Data	Representing Data	Line Plots	6	1.3,2.4
Measurement	Length	Measurement Tools: Rulers	6	2.1,2.3
Measurement	Length	Measuring Lengths Greater Than 12 Inches	6	1.5,2.2
Measurement	Length	Measuring with Units	6	1.1
Measurement	Length	Measuring with Units	6	1.1
Measurement	Length	Measuring with Units of Different Lengths	6	1.2,1.3,2.4,2.5
Measurement	Length	Metric System	6	2.3,2.4
Measurement	Length	Standard Measurement	6	2.1,2.3
Measurement	Length	Strategies for Measuring Accurately	6	1.1,1.4,1.5
Measurement	Length	Using a Common Unit	6	1.2,1.3

Operations	Foundations of Multiplication	Equal Groups	7	2.1,2.2,2.5
Operations	Foundations of Multiplication	Equal Groups: Cube Buildings	7	2.1,2.2
Operations	Foundations of Multiplication	Even and Odd Numbers	7	1.2,1.3,1.4
Geometry	2-D Shapes	Pattern Block Shapes	7	2.5
Geometry	2-D Shapes	Rectangular Arrays	7	2.1,2.2
Number	Counting	Coin Values and Equivalencies	8	1.4
Operations	Subtraction	Learning Subtraction Facts	8	1.2
Measurement	Time	Measuring Time	8	1.1
Measurement	Time	Parts of an Hour	8	1.1
Number	Place Value	Representing Place Value: Hundreds, Tens, and Ones	8	2.1,2.2
Operations	Story Problems	Story Problems About Comparing: Smaller Unknown	8	1.1,1.3, 1.5
Operations	Addition	Strategies for Adding 3-Digit Numbers	8	2.2,2.3,2.4
Operations	Subtraction	Strategies for Subtracting 2-Digit Numbers	8	1.7,1.8,1.9,1.10
Operations	Subtraction	Strategies for Subtracting 3-Digit Numbers	8	2.6,2.7,2.8

INVESTIGATIONS 3
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Grade 3

Concept	Sub-categories	Title	Unit	Session(s)
Measurement	Area and Perimeter	Area	1	3.3
Operations	Multiplication	Arrays	1	3.1
Operations	Multiplication and Division Facts	Learning Multiplication Facts	1	4.5
Measurement	Area and Perimeter	Measuring Area with Square Units	1	3.3
Number	Place Value	Ones, Tens, and Hundreds	1	1.1
Number	Place Value	Ones, Tens, Hundreds, and Thousands	1	1.1
Number	Properties and Attributes of Numbers	Prime and Composite Numbers	1	3.2
Operations	Multiplication	Related Multiplication Problems	1	2.3,2.4,2.5,2.6
Operations	Multiplication and Division Facts	Relating Multiplication and Division	1	4.1,4.3
Number	Place Value	Representing Place Value: Hundreds, Tens, and Ones	1	1.1,1.2
Number	Counting	Skip Counting	1	2.1,2.2
Operations	Division	Solving Division Problems	1	4.1,4.2,4.3
Operations	Multiplication	Solving Multiplication Problems	1	1.1,1.2,1.3,1.4,4.3
Number	Properties and Attributes of Numbers	Square Numbers	1	3.2
Operations	Multiplication	Using Arrays to Solve Multiplication Problems	1	3.2
Data	Representing Data	Bar Graphs	2	1.4,1.5,1.6,1.7,1.8,2.6
Data	Classifying Data	Categorical Data	2	1.1,1.2,1.3,1.6.1.8
Data	Classifying Data	Data Collection	2	1.1,1.6,1.8
Data	Analyzing Data	Describing and Summarizing Data	2	2.1,2.5,2.6
Measurement	Length	Length Measurement Tools	2	2.2
Measurement	Length	Linear Measurement	2	2.2
Measurement	Length	Measurement Benchmarks	2	2.2,2.3
Measurement	Length	Measuring Accurately	2	2.3
Measurement	Length	Measuring with Inches and Feet	2	2.3
Data	Analyzing Data	More or Less Than Half	2	1.7
Data	Representing Data	Organizing and Representing Data	2	2.1,2.6
Data	Representing Data	Pictographs	2	1.5,1.6,1.8

Number	Place Value	Adding and Subtracting Tens and Hundreds	3	3.3,3.4
Operations	Addition	Addition Strategies: Adding by Place	3	1.2,3.1,3.2
Operations	Addition	Addition Strategies: Adding One Number in Parts	3	3.1,3.2,3.4,3.5
Operations	Addition	Addition Strategies: Changing the Numbers	3	3.4,3.5
Number	Place Value	Many Ways to Make 145	3	1.5
Number	Place Value	Ones, Tens, and Hundreds	3	1.5
Number	Place Value	Ones, Tens, Hundreds, and Thousands	3	2.1,2.2,2.3
Number	Place Value	Representing Place Value: Hundreds, Tens, and Ones	3	1.2,2.2,2.3
Number	Place Value	Rounding to Tens and Hundreds	3	2.4
Operations	Subtraction	Subtraction Situations	3	5.1
Operations	Subtraction	Subtraction Strategies: Adding Up and Subtracting Back	3	1.3,4.1,4.2,4.3,4.4,5.2,5.4,5.5
Operations	Subtraction	Subtraction Strategies: Subtracting One Number in Parts	3	4.2,5.4,5.5
Operations	Addition	Tools to Represent Addition Problems	3	3.1
Operations	Subtraction	Tools to Represent Subtraction Problems	3	1.3,4.1,4.5,5.1,5.2,5.3
Geometry	2-D Shapes	Angles	4	3.1,3.3,3.4,3.5
Measurement	Area and Perimeter	Area	4	2.2,2.3,2.4,2.5
Measurement	Length	Linear Measurement	4	1.1
Measurement	Length	Measurement Benchmarks	4	1.1
Measurement	Length	Measuring Accurately	4	1.2
Measurement	Area and Perimeter	Measuring Area with Square Units	4	2.2,2.3
Measurement	Area and Perimeter	Perimeter	4	1.2
Geometry	2-D Shapes	Polygons	4	1.3
Geometry	2-D Shapes	Quadrilaterals	4	3.3,3.4,3.5
Measurement	Area and Perimeter	Solving Perimeter Problems	4	1.4
Measurement	Area and Perimeter	Tetrominoes	4	2.1
Geometry	2-D Shapes	Triangles	4	3.1,3.2
Operations	Multiplication	Arrays	5	2.1
Operations	Multiplication	Cube Train Patterns	5	1.1
Operations	Multiplication	Doubling One Factor	5	2.3
Operations	Multi-Step Problems	Equations with Two Operations	5	1.2
Operations	Multiplication and Division Facts	Learning Multiplication Facts	5	2.1,2.2,2.3,3.2
Operations	Multiplication	Multiplying Groups of 10	5	3.1

Operations	Multiplication and Division Facts	Relating Multiplication and Division	5	1.4,2.5
Number	Counting	Skip Counting	5	1.1
Operations	Multi-Step Problems	Solving a Multi-step Problem	5	3.3
Operations	Division	Solving Division Problems	5	1.1,1.4,2.5
Operations	Multiplication	Solving Multiplication Problems	5	1.1,1.4,2.5
Operations	Multiplication	Using Arrays to Solve Multiplication Problems	5	2.1
Number	Fractions	Comparing Fractions with the Same Numerator or Denom	6	2.2,2.3,2.4
Number	Fractions	Equivalent Fractions	6	1.4,1.5,1.7
Number	Fractions	Fractional Parts	6	1.3,1.4,2.1
Number	Fractions	Fractions of an Area	6	1.1,1.2
Number	Fractions	Fractions on a Number Line	6	1.5,2.2
Measurement	Length	Measuring Accurately	6	1.6
Number	Fractions	Quantities Greater Than One	6	1.7,1.8
Number	Fractions	What is a Fraction?	6	1.1,1.2
Operations	Addition	Adding and Subtracting Tens and Hundreds	7	1.5
Number	Place Value	Adding and Subtracting Tens and Hundreds	7	1.5
Operations	Addition	Adding More Than Two Numbers	7	2.4,2.5,3.5
Operations	Addition	Addition Strategies: Adding by Place	7	2.2,2.3,2.4,3.5
Operations	Addition	Addition Strategies: Adding One Number in Parts	7	2.3,2.4
Operations	Addition	Addition Strategies: Changing the Numbers	7	2.1,2.2,2.3,2.4
Measurement	Capacity and Liquid Volume	Measuring Liquid Volume	7	1.1
Measurement	Weight and Mass	Measuring Mass	7	1.2
Operations	Subtraction	Subtraction Situations	7	3.2,3.4
Operations	Subtraction	Subtraction Strategies: Adding Up and Subtracting Back	7	3.1,3.3,3.5
Operations	Subtraction	Subtraction Strategies: Subtracting One Number in Parts	7	3.3
Operations	Addition	Tools to Represent Addition Problems	7	2.1
Operations	Subtraction	Tools to Represent Subtraction Problems	7	1.3,1.5,3.3
Operations	Multiplication and Division Facts	Learning Division Facts	8	1.2
Operations	Rate of Change	Magic Marble Comparisons	8	3.2
Operations	Division	Remainders: What Do You Do with the Extras?	8	1.4
Operations	Multi-Step Problems	Solving a Multi-step Problem	8	2.4
Operations	Division	Solving Division Problems	8	1.1,2.3

Operations	Multiplication	Solving Multiplication Problems	8	2.1
Operations	Division	Solving Related Division Problems	8	1.3
Operations	Rate of Change	The Magic Marbles of Rhomaar	8	3.1
Operations	Rate of Change	Using a Table	8	3.2
Operations	Multiplication	Using Arrays to Solve Multiplication Problems	8	2.2
Operations	Rate of Change	Writing Rules to Describe Change	8	3.3,3.4

INVESTIGATIONS 3
IN NUMBER, DATA, AND SPACE®

SAVVAS
LEARNING COMPANY

Grade 4

Concept	Sub-categories	Title	Unit	Session(s)
Number	Properties and Attributes of Number	Factors	1	1.2,1.3,1.4,1.7,2.1,2.2,2.4
Number	Properties and Attributes of Number	Factors and Multiples	1	2.3
Operations	Multiplication and Division Facts	Learning Multiplication Facts	1	1.4
Number, Operations	Properties and Attributes of Number	Multiples	1	1.7,2.1
Number	Properties and Attributes of Number	Multiples: Counting Around the Class	1	2.1
Operations	Multiplication	Multiplicative Comparison	1	1.5,1.8
Number	Properties and Attributes of Number	Prime and Composite Numbers	1	1.3,1.6
Operations	Multiplication	Representing Multiplication with Arrays	1	1.1,1.4
Number	Properties and Attributes of Number	Square Numbers	1	1.3
Data	Analyzing Data	Comparing Two Sets of Data	2	1.3,1.4,2.3,2.4,2.6
Data	Classifying Data	Data Collection	2	1.1, 2.2
Data	Analyzing Data	Describing and Summarizing Data	2	1.2,2.5
Measurement	Length	Measuring Accurately	2	1.2,2.2
Data	Representing Data	Organizing and Representing Data	2	1.1
Data	Analyzing Data	Working with Data	2	1.1,1.2,2.1
Operations	Multiplication and Division Facts	Division and Multiplication	3	2.5,2.6
Operations	Division	Division Situations	3	2.1,2.6
Operations	Division	Division Strategies	3	2.1,2.3,2.4,3.7
Number	Properties and Attributes of Number	Factors and Multiples	3	3.1
Operations	Multiplication	Multiple Towers	3	3.1
Operations	Multiplication	Multiplication Cluster Problems	3	3.5,3.7
Operations	Multiplication	Multiplying Groups of 10	3	3.2,3.3
Operations	Division	Remainders: What Do You Do with the Extras?	3	2.2,2.3
Operations	Multiplication	Representing Multiplication with Arrays	3	1.1,1.2,1.3
Operations	Multiplication	Strategies for Solving Multiplication Problems	3	1.2,3.4,3.6,3.7

Operations	Multiplication	Unmarked Arrays	3	1.2,1.4,1.5
Geometry	2-D Shapes	Angles and Degrees	4	2.1,2.5,3.1,3.2,3.4
Measurement	Angle Measurement	Angles and Degrees	4	2.1,2.5,3.1,3.2,3.4
Geometry	2-D Shapes	Classifying Triangles	4	2.5
Measurement	Area and Perimeter	Finding Area of a Rectangle	4	4.6
Measurement	Length	Length Measurement Tools	4	1.1
Measurement	Length	Measurement Benchmarks	4	1.1,1.2
Measurement	Length	Measuring Accurately	4	1.5
Measurement	Area and Perimeter	Measuring Area	4	4.2,4.4
Measurement	Area and Perimeter	Measuring Perimeter	4	1.3,1.4
Measurement	Angle Measurement	Measuring with Protractors	4	3.3,3.4
Geometry	2-D Shapes	Mirror Symmetry	4	4.1,4.2,4.3
Measurement	Area and Perimeter	Perimeter or Area?	4	1.4, 4.5
Geometry	2-D Shapes	Points, Line Segments, and Parallel Lines	4	2.1
Geometry	2-D Shapes	Polygons	4	2.1,2.2
Geometry	2-D Shapes	Quadrilaterals	4	2.3,2.4
Operations	Addition	Addition Strategies	5	1.1,1.2,2.6,2.7,3.3,3.4,3.5,3.6
Operations	Addition	Comparing Addition Notation	5	1.4
Number	Place Value	Place Value: Large Numbers	5	1.1,3.1,3.2,3.3,3.5,3.6
Number	Place Value	Rounding Large Numbers	5	3.1,3.2,3.3,3.5
Operations	Subtraction	Subtraction Problem Types	5	2.1,2.6,2.7
Operations	Subtraction	Subtraction Strategies	5	2.2,2.3,2.5,2.6,2.7,3.3,3.4,3.5,
Operations	Addition	U.S. Standard Algorithm for Addition	5	1.4
Operations	Subtraction	U.S. Standard Algorithm for Subtraction	5	2.4,2.5,2.6,2.7
Operations	Addition	Adding and Subtracting Mixed Numbers	6	3.4
Operations	Addition and Subtraction: Fractions	Adding and Subtracting Mixed Numbers	6	3.4
Operations	Subtraction	Adding and Subtracting Mixed Numbers	6	3.4
Operations	Addition	Adding Fractions with Like Denominators	6	3.1,3.3,3.4,4.2,4.4
Operations	Addition and Subtraction: Fractions	Adding Fractions with Like Denominators	6	3.1,3.3,3.4,4.2,4.4
Operations	Addition	Adding Tenths and Hundredths	6	3.5,3.6
Operations	Addition and Subtraction: Fractions	Adding Tenths and Hundredths	6	3.5,3.6
Number	Decimals	Comparing Decimals	6	2.7

Number	Fractions	Comparing Fractions	6	2.2,2.3,2.4,2.5,2.6
Number	Fractions	Fractional Parts	6	1.2,2.2,3.1
Number	Fractions	Fractions of an Area	6	1.1
Number	Fractions	Generating Equivalent Fractions	6	1.1,1.3,1.6,2.3,2.8
Number	Fractions	Halves of Different Wholes	6	1.3
Operations	Multiplication	Multiplying Fractions by Whole Numbers	6	4.1,4.2,4.3,4.4
Operations	Multiplication: Fractions	Multiplying Fractions by Whole Numbers	6	4.1,4.2,4.3,4.4
Number	Decimals	Place Value: Decimals	6	1.4
Number	Decimals	Representing Decimals	6	1.4
Operations	Addition and Subtraction: Fractions	Remainders: What Do You Do with the Extras?	6	3.2,3.3,3.4,4.2,4.4
Operations	Subtraction	Subtracting Fractions with Like Denominators	6	3.2,3.3,3.4,4.2,4.4
Number	Decimals	Tenths and Hundredths	6	1.5,3.5
Number	Fractions	Using Fractions for Quantities Greater Than One	6	2.1
Number	Fractions	What is a Fraction?	6	1.1
Measurement	Length	Converting Measurement	7	1.1,1.2
Operations	Multiplication and Division Facts	Division and Multiplication	7	3.1
Operations	Division	Division Situations	7	3.1
Operations	Division	Division Strategies	7	3.1,3.3,3.4
Operations	Multi-Step Problems	Multi-step Problems with Larger Numbers	7	3.4,3.5
Operations	Multiplication	Multiple Towers	7	3.2
Operations	Multiplication	Multiplication Cluster Problems	7	1.5,1.6,1.7,2.2,2.3
Operations	Division	Remainders: What Do You Do with the Extras?	7	3.2
Operations	Multiplication	Representing Multiplication with Arrays	7	1.5
Operations	Multiplication	Strategies for Solving Multiplication Problems	7	1.1,1.5,1.6,1.7,2.1,2.2,2.3
Operations	Multiplication	Unmarked Arrays	7	1.5
Operations	Patterns and Rules	A Table for a Penny Jar Problem	8	1.2,1.4
Operations	Patterns and Rules	Penny Jar Comparisons	8	1.1,1.5
Operations	Patterns and Rules	Rules to Describe Penny Jar Situations	8	1.3,1.5
Operations	Patterns and Rules	Rules to Describe Windows and Towers	8	1.9
Operations	Patterns and Rules	The Penny Jar	8	1.1
Operations	Patterns and Rules	Windows and Towers	8	1.6,1.7,1.8

3.6

INVESTIGATIONS 3
IN NUMBER, DATA, AND SPACE®

SAVVAS
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Grade 5

Concept	Sub-categories	Title	Unit	Session(s)
Operations	Multiplication	Arrays and Unmarked Arrays	1	1.1
Operations	Division	Division Strategies: 2-Digit Divisors	1	3.3
Operations	Multiplication	Equivalent Expressions in Multiplication	1	2.6
Number	Properties and Attributes of Numbers	Factors	1	1.1
Operations	Multiplication and Division Facts	Learning Multiplication Facts	1	1.3
Operations	Division	Mathematical Symbols and Notation	1	3.1
Operations	Multiplication	Mathematical Symbols and Notation	1	3.1
Operations	Multiplication	Multiple Towers	1	3.2
Operations	Multiplication	Multiples	1	1.1
Number	Properties and Attributes of Numbers	Multiples	1	1.1
Operations	Division	Multiplication and Division	1	1.1
Operations	Multiplication	Multiplication and Division	1	1.1
Operations	Division	Multiplication and Division Cluster Problems	1	2.4,2.5,3.5
Operations	Multiplication	Multiplication and Division Cluster Problems	1	2.4,2.5,3.5
Operations	Multiplication	Multiplication Strategies	1	2.1
Operations	Multi-Step Problems	Order of Operations	1	1.4
Number	Properties and Attributes of Numbers	Properties of Numbers	1	1.2
Operations	Division	Remainders: Answering the Question Asked	1	3.1
Measurement	Volume	Changing the Dimensions and Changing the Volume	2	1.3
Measurement	Volume	Finding the Volume of Solids	2	1.6
Measurement	Length	Length Measurement Tools	2	2.3
Measurement	Length	Measuring Accurately	2	2.3
Geometry	3-D Shapes	Rectangular Prisms	2	1.1,1.3
Measurement	Volume	Standard Cubic Units	2	1.5,2.1,2.2
Measurement	Volume	Volume Formulas	2	1.2,1.5
Measurement	Volume	Volume of Rectangular Prisms	2	1.1

Operations	Addition and Subtraction: Fractions	Adding and Subtracting Mixed Numbers with Unlike Denominators	3	3.3,3.5,3.6
Operations	Addition and Subtraction: Fractions	Adding Fractions	3	2.1,2.2,2.3,2.5
Number	Fractions	Comparing and Ordering Fractions	3	1.3,1.4,1.5,1.6,2.4
Data	Representing Data	Data on Line Plots	3	3.4
Number	Fractions	Fraction Equivalencies	3	1.2,1.3
Number	Fractions	Fractions and Decimals	3	1.1
Number	Fractions	Naming Fractions	3	1.2
Operations	Addition and Subtraction: Fractions	Subtracting Fractions	3	2.7,3.1,3.2
Operations	Addition and Subtraction: Fractions	Using Equivalent Fractions to Add or Subtract Fractions	3	2.1,2.6,3.1,3.2
Number	Fractions	What is a Fraction?	3	1.1
Operations	Multiplication	Comparing Multiplication Algorithms	4	1.3
Operations	Division	Division Strategies: 2-Digit Divisors	4	2.1,2.2,3.1,3.3,3.4
Operations	Multi-Step Problems	Multi-step Problems with Larger Numbers	4	3.1
Operations	Multiplication	Multiplication Strategies	4	1.1,1.2,3.1,3.3
Operations	Multiplication	The U.S. Standard Algorithm for Multiplication	4	1.3,1.4
Number	Place Value	Writing Powers of 10 Using Exponents	4	1.4
Geometry	Coordinate Graphing	Comparing Rates of Growth	5	1.6,1.7
Geometry	Coordinate Graphing	Coordinate Graphs	5	1.1,1.2
Geometry	Coordinate Graphing	Growing at a Changing Rate	5	1.7,2.5,2.6
Geometry	Coordinate Graphing	Growing at a Constant Rate	5	1.5,1.6
Geometry	Coordinate Graphing	Ordered Pairs	5	1.4,2.4
Geometry	Coordinate Graphing	Tables and Graphs	5	1.1,1.3,1.4,1.5,1.6,2.3
Geometry	Coordinate Graphing	Telling Stories From Line Graphs	5	1.4
Geometry	Coordinate Graphing	Writing Rules to Describe Change	5	2.2,2.3
Operations	Addition and Subtraction: Decimals	Adding Decimals	6	2.1,2.2,2.5
Number	Decimals	Comparing and Ordering Decimals	6	1.3,1.4,1.7,2.5
Number	Decimals	Decimals to Thousandths	6	1.1,1.2
Number	Decimals	Equivalent Decimals and Fractions	6	1.2,1.4
Number	Fractions	Equivalent Decimals and Fractions	6	1.2,1.4
Number	Decimals	Place Value: Decimals to Thousandths	6	1.2
Number	Place Value	Place Value: Decimals to Thousandths	6	1.2

Number	Decimals	Rounding Decimals	6	1.6
Operations	Addition and Subtraction: Decimals	Subtracting Decimals	6	2.4,2.5,2.6
Measurement	Length	Converting Metric Measurements	7	3.8,3.10
Measurement	Length	Converting U.S. Measurements	7	3.9,3.10
Operations	Division	Dividing a Fraction by a Whole Number	7	1.10
Operations	Multiplication and Division: Fractions	Dividing a Fraction by a Whole Number	7	1.10
Operations	Division	Dividing a Whole Number by a Unit Fraction	7	1.9
Operations	Multiplication and Division: Fractions	Dividing a Whole Number by a Unit Fraction	7	1.9
Operations	Division	Dividing by Powers of 10	7	3.6
Operations	Multiplication and Division: Decimals	Dividing by Powers of 10	7	3.6
Operations	Multiplication and Division: Decimals	Dividing Decimals	7	3.7,3.9
Number	Decimals	Finding Decimals Equivalent to Fractions	7	2.2,2.3
Number	Fractions	Finding Decimals Equivalent to Fractions	7	2.2,2.3
Operations	Multiplication and Division: Fractions	Finding Decimals Equivalent to Fractions	7	2.2,2.3
Operations	Division	Fractions as Division	7	2.1
Operations	Multiplication and Division: Fractions	Fractions as Division	7	2.1
Operations	Multiplication	Multiplying a Fraction by a Fraction	7	1.5,1.7
Operations	Multiplication and Division: Fractions	Multiplying a Fraction by a Fraction	7	1.5,1.7
Operations	Multiplication	Multiplying by Powers of 10	7	3.1,3.2
Operations	Multiplication and Division: Decimals	Multiplying by Powers of 10	7	3.1,3.2
Operations	Multiplication	Multiplying Decimals	7	3.2,3.3,3.5
Operations	Multiplication and Division: Decimals	Multiplying Decimals	7	3.2,3.3,3.5
Operations	Multiplication	Multiplying Fractions by Whole Numbers	7	1.1
Operations	Multiplication and Division: Fractions	Multiplying Fractions by Whole Numbers	7	1.1
Operations	Multiplication	Multiplying Whole Numbers, Fractions, and Mixed Numbers	7	1.2,1.3,1.4
Operations	Multiplication and Division: Fractions	Multiplying Whole Numbers, Fractions, and Mixed Numbers	7	1.2,1.3,1.4
Geometry	2-D Shapes	Growing Rectangles	8	2.3
Measurement	Area and Perimeter	Perimeter or Area?	8	2.1
Geometry	2-D Shapes	Properties of Quadrilaterals	8	1.2,1.3,1.4
Geometry	2-D Shapes	Properties of Triangles	8	1.1,1.4
Measurement	Area and Perimeter	Same Area, Different Perimeter	8	2.4
Measurement	Area and Perimeter	Same Perimeter, Different Area	8	2.4