

# Math Flow Chart

## Lower Elementary

MAIN MENU






	Linear Counting	Operations	Facts	Fractions	Graphing	Money	Abstraction
1 <sup>st</sup> Year	1-10 Seguin Boards 1-100 Square/Cube Chains	Golden Beads >, <, = Golden Beads +, -, ×, ÷ Dot Board + Small Bead Frame +, -, ×	Discrete +, - Stripboard +, - Charts +, - × Bead Board ÷ Bead Board	Naming Fractions +, -, ×, ÷ with like denominators	Intro to Attributes Pictographs	Intro to coins in \$, ¢ Counting Like	Word Problems (Operation, facts, money)
2 <sup>nd</sup> Year	Skip counting Square/Cube Chains	Large Bead Frame Checkerboard Gold Bead Frame Stamp Game ÷	Level 1 Bead Games × Charts ÷ Charts	Equivalent Fraction Research	Tally Graphs Representational Graphs	Unlike coins Multiple ways to form quantities Making change: like coins	Word Problems (Operations, facts, money)
3 <sup>rd</sup> Year	Exponents Square/Cube Chains	Test Tubes	Level 2 Bead Games		Pie Charts Bar Graphs	Making change: unlike coins	Word Problems (Operations, facts, money)

# Math Flow Chart

## Lower Elementary

YEAR1 Level 6-9

Subject Area: Math - Operations

Month	Lesson	Material	Picture
August to September	Review Teen Numerals Formation	Teens Board Teens "Cards and Counters"	
	Review of Teen Numerals Reading	Teens Board Teens Number Writing	
	Review of Tens Numerals Formation	Tens Board Golden Beads	
	Review of Tens Numerals Reading	Tens Board 100 Board Chains	
September to October	Counting to 100	Square Chains Hundred Board	
	Counting to 1,000	Cube Chains	

# Math Flow Chart

## Lower Elementary

YEAR1 Level 6-9

Subject Area: Math - Operations


Month	Lesson	Material	Picture
August to September	Review Formation of 4 digit Numerals Decomposed	Golden Beads ETC K-1 Cards Set 1	
	Review Formation of 4 Digit Numerals Composed	Golden Beads ETC K-1 Cards Set 2	
	Review Reading 4 Digit Numerals Unit, Ten	Golden Beads ETC K-1 Cards Set 3, 4	
	Review Reading 4 Digit Numerals Unit, Ten, Hundred	Golden Beads ETC K-1 Cards Set 5	
	Review Reading 4 Digit Numerals Unit, Ten, Hundred, Thousand	Golden Beads ETC K-1 Cards Set 6	
	Greater Than/ Less Than/Equal To 4 Digit Numerals Pictorial	ETC K-1 Cards Set 1	
	Greater Than/ Less Than/ Equal To 4 Digit Numerals Pictorial and Numeral	ETC K-1 Cards Set 2	

# Math Flow Chart

## Lower Elementary

YEAR1 Level 6-9

Subject Area: Math - Operations

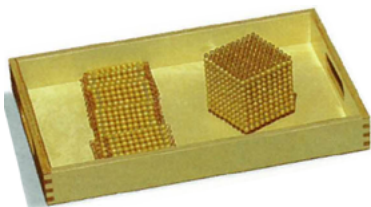



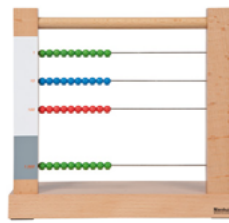
Month	Lesson	Material	Picture
September to October	Greater Than/ Less Than/ Equal To 4 Digit Numerals Numerals Only	ETC K-1 Cards Set 3	
	Review Static Addition	Golden Beads	
	Review Exchange Game	Golden Beads	
	Dynamic Addition	Golden Beads	
	Static Subtraction	Golden Beads	

# Math Flow Chart

## Lower Elementary

YEAR1 Level 6-9

Subject Area: Math - Operations


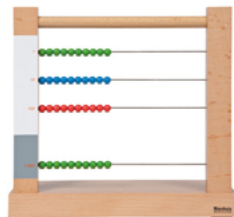

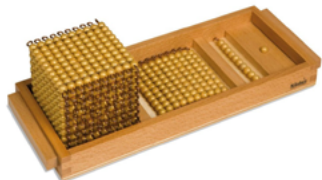
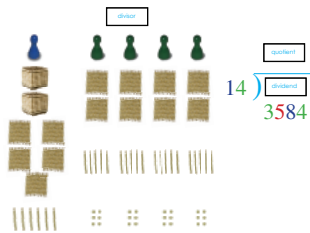
October to November	Dynamic Addition	Golden Beads	
	Exchange Game for Subtraction	Golden Beads	
	Static Addition	Stamp Game	
	Dynamic Addition	Stamp Game	
November to December	Static Addition Multiple Addends Column Addition	Dot Board	
	Dynamic Addition Multiple Addends Column Addition	Dot Board	
December to January	Static Subtraction	Stamp Game	
	Dynamic Subtraction	Stamp Game	
	Static Addition Multiple Addends Column Addition	Small Bead Frame	
	Dynamic Addition Multiple Addends Column Addition	Small Bead Frame	

# Math Flow Chart

## Lower Elementary

YEAR1 Level 6-9

Subject Area: Math - Operations









January to February	Continue Dynamic Subtraction	Stamp Game	
	Continue Dynamic Addition	Small Bead Frame	
February to March	Abstraction of Static Addition		
	Static Subtraction	Small Bead Frame	
March to April	Introduction to 4 Digit Multiplication by a Single Digit Multiplier	Golden Beads	
	Abstraction of Static Subtraction		
April to May	Abstraction of Dynamic Subtraction		
	Introduction to Division with a Unit Divisor	Golden Beads	
May	Introduction of Division with a Two Digit Divisor	Golden Beads	

# Math Flow Chart

## Lower Elementary

YEAR 1 Level 6-9

Subject Area: Math - Facts

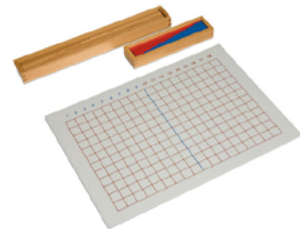

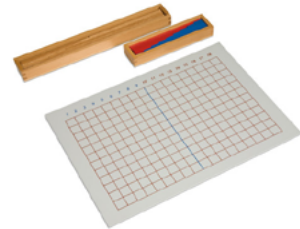

Month	Lesson	Material	Picture
August to September	Review Object Addition Facts 1-10	Discrete Objects Check with Control Chart 1	
	Review Colored Bead Stair Addition Facts 1-10	Colored Bead Stairs Check With Control Chart 1	
September to October	Object Addition Facts 11-18	Discrete Objects Check with Control Chart 1	
	Colored Bead Stair Addition Facts 11-18	Colored Bead Stairs Check With Control Chart 1	
	Search for 10 Snake Game	Addition Snake Game	
October to November	Addition Facts (Counting On) 1-10 Fact Families/Commutative Property	Addition Strip Board Check with Control Chart 2	
	Addition Facts (Counting On) 11-18 Fact Families/Commutative Property	Addition Strip Board Check with Control Chart 2	
	Object Subtraction Differences Less Than 9	Discrete Objects Check with Control Chart 1	
	Object Subtractions Differences Less Than 18	Discrete Objects Check with Control Chart 1	
	Counting to 10 and Exchanging Fact Families of 10	Snake Game with Black and White Bead Stair	

# Math Flow Chart

## Lower Elementary

YEAR1 Level 6-9

Subject Area: Math - Facts

Month	Lesson	Material	Picture
November to December	Subtraction with Differences Less than 9	Subtraction Strip Board	
	Addition Facts Using a Number Line	Number Line Addition	
	Subtraction with Differences Less than 18	Subtraction Strip Board	
December to January	Addition Facts with Sums Less Than 10	Addition Chart 3 Make sure children are predicting their answer before they check it on the chart	
	Addition Facts with Sums Less Than 18	Addition Chart 3 Make sure children are predicting their answer before they check it on the chart	











# Math Flow Chart

## Lower Elementary

YEAR 1 Level 6-9

Subject Area: Math - Facts

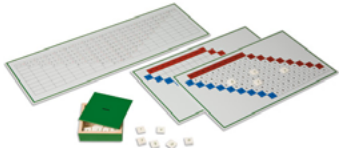

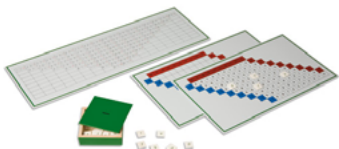



Month	Lesson	Material	Picture
January to February	Addition Facts Sums Less Than 18	Addition Chart 4	
	Subtraction Facts Differences Less Than 18	Continue Number Line Subtraction Check with Control Chart 1	
	Addition with Several Addends	Colored Bead Stairs	
February to March	Addition Facts Sums Less Than 18	Chart 5	
	Addition Facts Sums Less Than 18	Chart 6 (Bingo)	
	Subtraction Facts Differences Less Than 9	Subtraction Chart 2	
	Subtraction Facts Differences Less Than 18	Subtraction Chart 2	
	Addition Facts with Missing Addends	Number Balance Chart 4	
	Abstraction of Addition Facts to 18	Addition Snake Game (last presentation)	

# Math Flow Chart

## Lower Elementary

YEAR 1 Level 6-9

Subject Area: Math - Facts

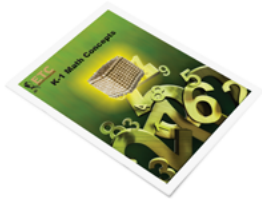

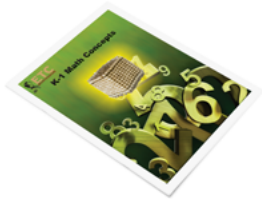

Month	Lesson	Material	Picture
March to April	Subtraction Facts	Subtraction Chart 2	
	Building Rectangles (Arrays) for Multiplication	Multiplication Bead Board	
	Subtraction Facts and Missing Subtrahends	Subtraction Chart 2	
April to May	Subtraction Facts	Subtraction Snake Game (I)	
	Division Facts	Division Bead Board	
May	Multiplication Facts Layout	Bead Bars	

# Math Flow Chart

## Lower Elementary

YEAR 1 Level 6-9

Subject Area: Math - Fractions/Money


Month	Lesson	Material	Picture
September to October	Introduction to Fractions Numerator/Denominator	Circle Fractional Insets	
	Composing Fractions with Fractional Circle Insets	Circle Fractional Insets	
	Naming Fractions with Fractional Circle Insets	Circle Fractional Insets	
	Composing Fractions as part of a set	ETC Fraction Cards from K-1 Task Cards	
	Naming Fractions as part of a set	ETC Fraction Cards from K-1 Task Cards	
October to November	Addition of Fractions Like Denominators ***Cooking***	Fractional Insets or Fraction Box	
	Introduction of Names and Values of Coins	Learning About Money	
	Counting Like Coins Less Than a Dollar	Learning About Money	
	Ordinal Position First, Last, (and those in between)	ETC K-1 Task Cards Ordinal Numbers	
November to December	Introduction to Subtraction of Fractions with Like Denominators	Fractional Insets or Fraction Box	

# Math Flow Chart

## Lower Elementary

YEAR 1 Level 6-9

Subject Area: Math - Fractions/Money

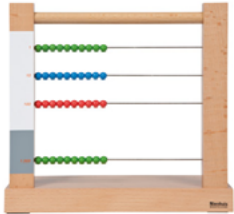



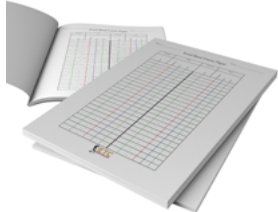
Month	Lesson	Material	Picture
January to February	Counting Like Coins More Than One Dollar	Learning About Money	
	*** Likely to Happen/ Not Likely to Happen*** Related to Weather		
	***Impossible vs. Certain*** Related to Weather		
February to March	Counting Unlike Coins Less Than One Dollar	Learning About Money	
March to April	Multiplication of a Fraction by a Whole Numbers	Fractional Insets or Fraction Box	
April to May	Introduction of Division of a Fraction by a Whole Number	Fractional Insets or Fraction Box	
May	Money: Rebus/Word Problems	Learning About Money	

# Math Flow Chart

## Lower Elementary

YEAR 2 Level 6-9

Subject Area: Math - Operations






Month	Lesson	Material	Picture
August to September	Review Dynamic Addition	Small Bead Frame ***Ask children to explain what they are doing and practice writing this process in words***	
	Review Dynamic Subtraction	Small Bead Frame	
	History of Number	History of Number Nomenclature	
	Different Number Systems	Roman Numerals	
September to October	Multiplication of 4 digit by a Unit	Stamp Game	
	Multiplication of 4 digit by a Unit	Small Bead Frame (Level 1)	

# Math Flow Chart

## Lower Elementary

YEAR 2 Level 6-9

Subject Area: Math - Operations




Month	Lesson	Material	Picture
October to November	Multiplication of 4 digit by a 2 or 3 digit multiplier	Checkerboard (Level 1)	
	Multiplication of 4 digit by a 2 or 3 digit multiplier	Large Bead Frame (Level 1)	
November to December	Multiplication of 4 digits by 2 or 3 digit multiplier	Checkerboard Large Bead Frame (Level 1)	
December to January	Multiplication of 4 digits by 2 or 3 digit multiplier	Checkerboard Large Bead Frame (Level 1)	
January to February	4 Digit Multiplication by a 2 or 3 digit multiplier	Checkerboard Large Bead Frame (level 1)	
	Checkerboard Design	Checkerboard	

# Math Flow Chart

## Lower Elementary

YEAR 2 Level 6-9

Subject Area: Math - Operations

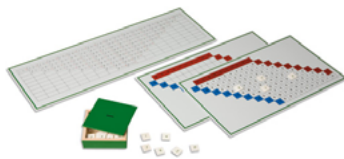
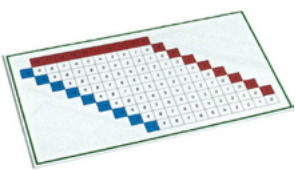





Month	Lesson	Material	Picture
February to March	4 Digit Multiplication by a 2 or 3 digit multiplier	Small Bead Frame Checkerboard (Level 2)	
March to April	4 digit Multiplication by a 2 or 3 digit Multiplier	Gold Bead Frame Large Bead Frame (Level 2)	
April to May	4 digit Multiplication by a 2 or 3 digit Multiplier	Large Bead Frame Checkerboard Gold Bead Frame (Level 3)	

# Math Flow Chart

## Lower Elementary

YEAR 2 Level 6-9

Subject Area: Math - Facts

Month	Lesson	Material	Picture
August to September	Review Subtraction Facts	Addition Charts 3,4, 5, 6 Subtraction Strip Board Subtraction Chart Number Line	
	Missing Subtrahends	Subtraction Chart 2	
	***Relate patterns in skip counting chains to a hundred board sheet***		
September to October	Review Making an Array in Multiplication	Multiplication Bead Board	
	Skip Counting Making Patterns	Square Chains	
	Skip Counting Making Patterns	Cube Chains	
	Multiplication Facts Building Sets 1-10 Bead Bar Layout	Multiplication Bead Bars Box of 55	
October to November	Multiplication Facts Factors of a Product	Multiplication Bead Bars Box of 55	

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# Math Flow Chart

## Lower Elementary

YEAR 2 Level 6-9

Subject Area: Math - Facts

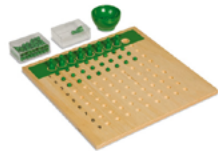

Month	Lesson	Material	Picture
November to December	Commutative Property of Multiplication	Colored Bead Stairs Box of 55	
	Change from Multiplication Control Chart 1 to 2 (Commutative Property)	Multiplication Control Chart 1 and 2	
	Decanomial Layout	Colored Bead Stairs Box of 55 (2 boxes)	
December to January	Multiplication Facts	Multiplication Chart 3	
		Multiplication Chart 4	
January to February	Multiplication Facts Exploring Patterns in Multiplication	Multiplication Chart 4 Multiplication Chart 5 (Bingo)	
February to March	Missing Factors	Multiplication Chart 3	
	Abstraction of Multiplication Facts	Multiplication Snake Game	

# Math Flow Chart

## Lower Elementary

YEAR 2 Level 6-9

Subject Area: Math - Facts




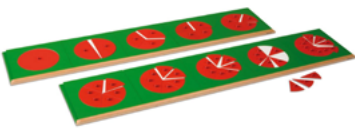

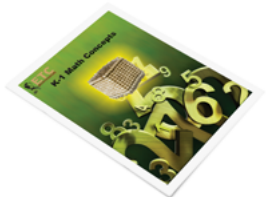
Month	Lesson	Material	Picture
March to April	Review Division Facts	Division Bead Board	
April to May	Division Facts	Division Chart 1	

# Math Flow Chart

## Lower Elementary

YEAR 2 Level 6-9

Subject Area: Math - Fractions/Money

Month	Lesson	Material	Picture
August to September	Intervals in a Number Line Can Be Different	Number Line Extension Level 6-9	
	Counting Like Coins More Than One Dollar	Learning About Money	
September to October	Counting Unlike Coins More Than One Dollar	Learning About Money	
	Money Word Problems	Learning About Money	
October to November	Finding Equivalent Fractions from Halves to Tenths	Fractional Insets and Equivalency Research Sheet 1	
November to December	Make Equivalent Fractions Where Numerator is more than 1	Fractional Insets Equivalent Research Sheet 1 Fractional Work Level 6-9	
	***Review*** Fractional parts of sets	ETC K-1 Math kit Set 5	

# Math Flow Chart

## Lower Elementary

YEAR 2 Level 6-9

Subject Area: Math - Fractions/Money






Month	Lesson	Material	Picture
December to January	Money Word Problems	Learning About Money	
January to February	Equivalent Fractions with Numerators more than one	Fraction Research Sheet 2	
	Relationship of Fractions	ETC Number Line Task Cards	
February to March	Making Change	Learning About Money	
March to April	Review Multiplication of a fraction by a whole number		
	Review Division of a fraction by a whole number		
April to May	Money Rebus and Money Word Problems	Learning About Money	

# Math Flow Chart

## Lower Elementary

YEAR 3 Level 6-9

Subject Area: Math - Operations


Month	Lesson	Material	Picture
August	Review Dynamic Addition and Subtraction	Stamp Game	
	Review 4 Digit Multiplication by a 1 digit Multiplier		
September to October	4 digit Multiplication by a 2 or 3 digit multiplier	Checkerboard Large Bead Frame Gold Bead Frame (Level 3)	
October to November	4 digit Multiplication by a 2 or 3 digit multiplier	Checkerboard Large Bead Frame Gold Bead Frame (Level 3)	
November to December	Multiplication Level 3	Checkerboard Large Bead Frame Gold Bead Frame	
	Division with a one digit divisor	Stamp Game (Division 1)	
December to January	Division with a 2 digit Divisor	Stamp Game (Division 1)	

# Math Flow Chart

## Lower Elementary

YEAR 3 Level 6-9

Subject Area: Math - Operations

Month	Lesson	Material	Picture
February to March	Division with a one digit divisor ***Check with inverse operation***	Test Tubes (1 digit)	
March to April	Division with a one digit divisor	Test Tubes (1 digit)	
April to May	Division with multiple digit divisor	Test Tubes (2 digit)	

# Math Flow Chart

## Lower Elementary

YEAR 3 Level 6-9

Subject Area: Math - Facts




Month	Lesson	Material	Picture
August	Review Addition/Subtraction Facts		
	Review Multiplication Facts		
September to October	Review Multiplication Facts	Multiplication Chart 4,5	
October to November	Review Division Facts	Division Chart 1 Division Chart 2	
November to December	Review Division Facts		
	***Focus on Inverse Operations of Multiplication and Division***	Missing Factors	
December to January	Introduction to Exponents	Square Chains Cube Chains	
January to February	Multiplication of a Binomial	Box of 55 Bead Bars (Level 2 Bead Games)	

# Math Flow Chart

## Lower Elementary

YEAR 3 Level 6-9

Subject Area: Math - Facts

Month	Lesson	Material	Picture
February to March	Distributive Property		
	Multiplication of a Trinomial	Box of 55 Bead Bars (Level 2 Bead Games)	
March to April	Passage from a Square to a Successive Square	Box of 55 Bead Bars (Level 2 Bead Games)	
April to May	Passage from a Square to a Non-successive Square	Box of 55 Bead Bars (Level 2 Bead Games)	








# Math Flow Chart

## Lower Elementary

YEAR 3 Level 6-9

Subject Area: Math - Fractions/Money

Month	Lesson	Material	Picture
August	Review Counting Unlike Coins above One Dollar		
September to October	Review Making Change		
	Placing Fractions on a Number line	ETC Number Line Task Cards	
October to November	Introduce Coins as Fractional Parts of a Dollar	ETC Number Line Task Cards	
November to December	Comparing Equivalent Fractions on a Number Line	ETC Number Line Task Cards or ETC 6-9 Fraction Task Cards	
	Comparing Equivalent Fractions on a Number Line	ETC Number Line Task Cards or ETC 6-9 Fraction Task Cards	
December to January	Area of a Rectangle on a grid using fractions	ETC 6-9 Fraction Task Cards	




# Math Flow Chart

## Lower Elementary

YEAR 3 Level 6-9

Subject Area: Math - Fractions/Money

Month	Lesson	Material	Picture
February to March	Introduce coins as fractional parts of a dollar	ETC Number Line Task Cards	
March to April			