

EM2 (Elementary Math)

Course Curriculum

FALL SESSION (SEP - DEC) - 12 Classes	
Units	Topics
Unit 1A	<p>Math (Common Core):</p> <ul style="list-style-type: none"> • Number and Operations, Place Values • Less than and Greater Than • Ordering Numbers, Expanding 4 – Digit Numbers <p>Critical Thinking (Math Challenge):</p> <ul style="list-style-type: none"> • Clock problems, Logical Reasoning • Word Problems, Clues and Charts • Logical Match, Pattern Predictor
Unit 1B	<p>Math (Common Core):</p> <ul style="list-style-type: none"> • Rounding to 10 and 100 • Counting by Thousands • Rounded Numbers and Estimating <p>Critical Thinking (Math Challenge):</p> <ul style="list-style-type: none"> • Number Sequence, Competitive Math • Describing Shapes • Reading Passage
Unit 1C	Homework Review, 1 on 1 with Teacher, Bi-Weekly Test of Math and Critical Thinking
Unit 1D	<p>Math (Common Core):</p> <ul style="list-style-type: none"> • Multiplication, Doubling and Halving • Multiplication as Repeated Addition, Balance Math • Commutative Property, Mental Strategies <p>Critical Thinking (Math Challenge):</p> <ul style="list-style-type: none"> • Working Backward, Logical Connectives • Charts and Diagrams, Pattern Predictor • Clues and Charts, Word Problems
Unit 1E	<p>Math (Common Core):</p> <ul style="list-style-type: none"> • Mixed Operations, Multiplication • Evaluating Exponents

	<ul style="list-style-type: none"> • Division Facts, Word problems <p>Critical Thinking (Math Challenge):</p> <ul style="list-style-type: none"> • Working Backward, Competitive Math • Charts and Diagrams • Sequence of Figures
Unit 1F	Homework Review, 1 on 1 with Teacher, Bi-Weekly Test of Math and Critical Thinking
Unit 2A	<p>Math (Common Core):</p> <ul style="list-style-type: none"> • Word Problems – Money and Coins • Steps to Problem Solving • Number Connections, Balance Benders <p>Critical Thinking (Math Challenge):</p> <ul style="list-style-type: none"> • Venn Diagrams, Competitive Math - Number Systems • Clues and Charts, Logical Connectives • Pattern Predictor
Unit 2B	<p>Math (Common Core):</p> <ul style="list-style-type: none"> • Factors, Prime Numbers, LCM • Multiples of 2, 3 and 5, Missing Numbers • Prime and Composite Numbers <p>Critical Thinking (Math Challenge):</p> <ul style="list-style-type: none"> • Venn Diagrams, Patterns • Competitive Math – Fractions, Seating Arrangement • Describing Shapes, Reading Passage
Unit 2C	Homework Review, 1 on 1 with Teacher, Bi-Weekly Test of Math and Critical Thinking
Unit 2D	<p>Math (Common Core):</p> <ul style="list-style-type: none"> • Number Machines • Number Sequence, Word Problems • Algebra, Patterns and Functions <p>Critical Thinking (Math Challenge):</p> <ul style="list-style-type: none"> • Creating and Organizing List • Looking for Patterns, Word Problems • Clues and Charts, Function Finder
Unit 2E	<p>Math (Common Core):</p> <ul style="list-style-type: none"> • Numbers and Operations, Adding 3 or More Numbers • Subtracting without Regrouping • Adding and Subtracting Years

	<p>Critical Thinking (Math Challenge):</p> <ul style="list-style-type: none"> • Simpler Numbers, Patterns • Matching Classes by Pattern • Competitive Math, Reading Passage
Unit 2F	Homework Review, 1 on 1 with Teacher, Bi-Weekly Test of Math and Critical Thinking
WINTER SESSIONS (JAN - MAR) - 12 Classes	
Unit 3A	<p>Math (Common Core):</p> <ul style="list-style-type: none"> • Multiplication 3, 4 by 1 Digit • Multiplication 2 by 1, 2 Digit and 3 by 1, 2 Digit • Multiplication 2 by 2 Digit and Estimation <p>Critical Thinking (Math Challenge):</p> <ul style="list-style-type: none"> • Gauss Theorem, Competitive Math • Clues and Charts, Logical Connectives • Pattern Predictor
Unit 3B	<p>Math (Common Core):</p> <ul style="list-style-type: none"> • Numbers and Operations • Multiplication and Division • Dividing With Remainders, Word Problems <p>Critical Thinking (Math Challenge):</p> <ul style="list-style-type: none"> • Guessing and Checking, Measurements • Working Backward, Word Problems • Classifying More than One Way - Matching
Unit 3C	Homework Review, 1 on 1 with Teacher, Bi-Weekly Test of Math and Critical Thinking
Unit 3D	<p>Math (Common Core):</p> <ul style="list-style-type: none"> • Numbers and Operations, • Multiplication • Inverse Operation, Word Problems <p>Critical Thinking (Math Challenge):</p> <ul style="list-style-type: none"> • Geometry, Competitive Math • Know your Numbers • Clues and Charts, Logical Match
Unit 3E	<p>Math (Common Core):</p> <ul style="list-style-type: none"> • Division Word Problems, Choosing Operators • Two Digit Divisors and Multiplication • Whole Numbers, Simple Word problems

	<p>Critical Thinking (Math Challenge):</p> <ul style="list-style-type: none"> • Guess and Check, Competitive Math • Pattern Folding • Reading Passage
Unit 3F	<p>Homework Review, 1 on 1 with Teacher, Bi-Weekly Test of Math and Critical Thinking</p>
Unit 4A	<p>Math (Common Core):</p> <ul style="list-style-type: none"> • Numbers and Operations, • Multiplication to find Area • Choosing Operations <p>Critical Thinking (Math Challenge):</p> <ul style="list-style-type: none"> • Guess and Check, Competitive Math • Clues and Charts • Logical Connectives
Unit 4B	<p>Math (Common Core):</p> <ul style="list-style-type: none"> • Fractions, Numbers and Operations • Simplifying and Finding Equivalent Fractions • Reducing Fraction to lowest Terms <p>Critical Thinking (Math Challenge):</p> <ul style="list-style-type: none"> • Quotient and Remainder • Competitive Math - Time, Ages, Binary Logic • Inside Out Math, Figural Analogies
Unit 4C	<p>Homework Review, 1 on 1 with Teacher, Bi-Weekly Test of Math and Critical Thinking</p>
Unit 4D	<p>Math (Common Core):</p> <ul style="list-style-type: none"> • Comparison of Fractions • Equivalent Fractions, Fraction Addition • Adding Fractions with Denominators <p>Critical Thinking (Math Challenge):</p> <ul style="list-style-type: none"> • Quotient and Remainder, Period • Number Systems, Competitive Math • Clues and Charts, Logical Match
Unit 4E	<p>Math (Common Core):</p> <ul style="list-style-type: none"> • Fraction Subtraction, Multiplication, Division • Fractions Comparison, LCM and LCD • Fraction Addition and Subtraction <p>Critical Thinking (Math Challenge):</p>

	<ul style="list-style-type: none"> • Perimeter, Reading Passage • Competitive Math – Averages, Percentages • Figural Analogies
Unit 4F	<i>Homework Review, 1 on 1 with Teacher, Bi-Weekly Test of Math and Critical Thinking</i>
SPRING SESSION (APR - JUN) - 12 Classes	
Unit 5A	<p>Math (Common Core):</p> <ul style="list-style-type: none"> • Fraction Addition and Subtraction • Fraction Comparison • Improper and Mixed Fractions <p>Critical Thinking (Math Challenge):</p> <ul style="list-style-type: none"> • Area and Perimeter, Word Problems • Clues and Charts, Number Systems • Logical Match
Unit 5B	<p>Math (Common Core):</p> <ul style="list-style-type: none"> • Division and Fraction • Mixed Fraction, Fraction Subtraction • Fractions Word Problems <p>Critical Thinking (Math Challenge):</p> <ul style="list-style-type: none"> • Tic Tac Math, Balance Benders • Patterns, Puzzles, Word Problems • Intersections, Reading Passage
Unit 5C	<i>Homework Review, 1 on 1 with Teacher, Bi-Weekly Test of Math and Critical Thinking</i>
Unit 5D	<p>Math (Common Core):</p> <ul style="list-style-type: none"> • Identifying Decimals, Decimals Less than One • Decimals and Fractions, Place Value in Decimal • Numbers and Operations <p>Critical Thinking (Math Challenge):</p> <ul style="list-style-type: none"> • Geometry – Area, Data Analysis • Word Problems, Clues and Charts • Logical Connectives, Pattern Predictor
Unit 5E	<p>Math (Common Core):</p> <ul style="list-style-type: none"> • Numbers and Operations, • Comparing Decimals on a Number Line • Converting Percent's to Decimals and Fractions <p>Critical Thinking (Math Challenge):</p>

	<ul style="list-style-type: none"> • Fractions, Competitive Math • Clues and Charts, Figure Sequence • Reading Passage
Unit 5F	<i>Homework Review, 1 on 1 with Teacher, Bi-Weekly Test of Math and Critical Thinking</i>
Unit 6A	<p><i>Math (Common Core):</i></p> <ul style="list-style-type: none"> • Measurements – Feet's and Inches • Centimeters and Millimeters, Pounds and Ounces • Calendar Days, Time and Clock, Graphs and Charts <p><i>Critical Thinking (Math Challenge):</i></p> <ul style="list-style-type: none"> • Patterns, Number Systems • Calendar and Time Word Problems • Logical Connectives, Pattern Predictor
Unit 6B	<p><i>Math (Common Core):</i></p> <ul style="list-style-type: none"> • Finding Shortest Paths, Finding Missing Lengths • Data Analysis, Time and Clock, Miles • Multiplying the Minutes, Measurements <p><i>Critical Thinking (Math Challenge):</i></p> <ul style="list-style-type: none"> • Guess and Check, Sequence of Operations • Inside Out Math, Clues and Charts • Reading Passage, Word Problems
Unit 6C	<i>Homework Review, 1 on 1 with Teacher, Bi-Weekly Test of Math and Critical Thinking</i>
Unit 6D	<p><i>Math (Common Core):</i></p> <ul style="list-style-type: none"> • Comparing Angles, Perimeter • Measurements, Area, Data Analysis • Working with Tables and Graphs <p><i>Critical Thinking (Math Challenge):</i></p> <ul style="list-style-type: none"> • Working Backward, Word Problems • Logical Math Puzzles, Logical Connectives • Pattern Predictor
Unit 6E	<p><i>Math (Common Core):</i></p> <ul style="list-style-type: none"> • Parallel and Perpendicular Lines • Sides and Angles, Symmetry, Solid Figures • Triangles and Quadrilaterals <p><i>Critical Thinking (Math Challenge):</i></p> <ul style="list-style-type: none"> • Quotient and Remainder, Competitive Math

	<ul style="list-style-type: none">• Balance Benders, Math Puzzles• Clues and Charts, Reading Passage
Unit 6F	<i>Homework Review, 1 on 1 with Teacher, Bi-Weekly Test of Math and Critical Thinking</i>