

Mathematics Scope and Sequence

Curriculum Element — Commonly, by the grade level(s) given below, the student will be able to:

	N	K	1st	2nd	3rd	4th	5th	6th	Serial #
MATHEMATICS	X	X	X	X	X	X	X	X	1
I. FUNDAMENTALS OF THE DECIMAL SYSTEM	X	X	X	X	X	X	X	X	2
I.A. Can count to 10 by units	X	X	X	X	X	X	X	X	3
I.A.1. Table top number rods	X								4
I.A.2. Sandpaper numerals	X								5
I.A.3. Association of number rods to numerals	X								6
I.A.4. Spindle boxes	X								7
I.A.5. Cards and counters	X								8
I.A.6. Short bead stair	X								9
I.B. Can count from 11 to 19 by units	X	X	X	X	X	X	X	X	10
I.B.1. Bead bars and cards	X	X							11
I.B.2. Teen board and beads	X	X							12
I.C. Can count from 1 to 100 by units	X	X	X	X	X	X	X	X	13
I.C.1. Ten boards and beads	X	X							14
I.C.2. 100 chain	X	X							15

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I.C.3. Hundred Board	I	X	X						16
I.D. Can count from 1 to 1,000:	X	X	X	X	X	X	X	X	17
I.C.1. Linear counting with bead chains	I	X	X						18
I.C.2. Linear counting with number rolls		I	X						19
I.C.3. Skip counting with bead chains and number rolls	X	X	X	X	X	X	X	X	20
I.C.3.a. 2's, 5's, and 10's		X	X						21
I.C.3.b. 3's, 4's, and 6's			X	X					22
I.C.3.c. 7's, 8's, and 9's			X	X					23
I.D. Numerical Place Value	X	X	X	X	X	X	X	X	24
I.D.1. Can recognize quantities up to 9,999	X	X	X	X	X	X	X	X	25
I.D.1.a. Golden Beads only	X	X	X						26
I.D.1.b. Number cards	X	X	X						27
I.D.1.c. Golden Beads and Number Cards	X	X	X						28
I.D.1.d. Exchanging Game	I	X	X						29
I.D.1.e. Stamp Game		X	X						30

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II.A.1.a. Golden Beads	X	X							46
II.A.1.b. Stamp Game			X						47
II.A.1.c. Dot Board			X						48
II.A.1.d. Golden Mat			X	X					49
II.A.1.e. Small Bead Frame		I	X	X					50
II.A.2. Addition of two 4 digit addends with exchanging	X	X	X	X	X	X	X	X	51
II.A.2.a. Golden Beads	I	X							52
II.A.2.b. Stamp Game	I	X	X						53
II.A.2.c. Dot Board		I	X						54
II.A.2.d. Golden Mat			X	X					55
II.A.2.e. Small Bead Frame			X	X					56
II.A.3. Addition of multiple addends	X	X	X	X	X	X	X	X	57
II.A.3.a. Golden Beads	X	X	X						58
II.A.3.b. Stamp Game		X	X	X					59
II.A.3.c. Dot Board			X	X					60

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II.A.3.d. Golden Mat			X	X					61
II.A.3.e. Small Bead Frame			X	X					62
II.A.4. Addition of two 7-digit addends without exchanging	X	X	X	X	X	X	X	X	63
II.A.4.a. Large Bead Frame			I	X					64
II.A.4.b. Long Division Racks and Tubes			I	X					65
II.A.4.c. Golden Mat			I	X					66
II.A.5. Addition of two 7-digit addends with exchanging	X	X	X	X	X	X	X	X	67
II.A.5.a. Large Bead Frame			I	X					68
II.A.5.b. Long Division Racks and Tubes			I	X					69
II.A.5.c. Golden Mat			I	X					70
II.A.6. Addition: Exercises leading to the memorization of addition facts	X	X	X	X	X	X	X	X	71
II.A.6.a. Basic addition facts: Two addends between 1-10	X	X	X	X	X	X	X	X	72
II.A.6.a1. Addition Snake Game	I	X	X						73
II.A.6.a2. Bead Bars	I	X	X						74
II.A.6.a3. Addition Strip Board	I	X	X						75

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II.A.6.a4. Addition Charts		X	X						76
II.A.6.b. Associative and Commutative Properties of Addition	X	X	X	X	X	X	X	X	77
II.A.6.b1. Bead Bars		I	X	X					78
II.A.6.b2. Flash Card Sets			X	X					79
II.A.6.c. Missing addends c1. Bead Bars			X	X					80
II.A.6.c2. Flash Card Sets			X	X					81
II.A.7. Addition: The Passage to Abstraction	X	X	X	X	X	X	X	X	82
II.A.7.a. Two Addends up to 9,999				X	X				83
II.A.7.b. Multiple addends up to 9,999,999				X	X				84
II.B. THE PROCESS OF SUBTRACTION	X	X	X	X	X	X	X	X	85
II.B.1. Subtraction of two 4 digit numbers without exchanging	X	X	X	X	X	X	X	X	86
II.B.1.a. Golden Beads	X	X							87
II.B.1.b. Stamp Game		X	X						88
II.B.1.c. Golden Mat			X						89
II.B.1.d. Small Bead Frame			X	X					90

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	N	K	1st	2nd	3rd	4th	5th	6th	Serial #
II.B.2. Subtraction of two 4 digit numbers with exchanging	X	X	X	X	X	X	X	X	91
II.B.2.a. Golden Beads	I	X							92
II.B.2.b. Stamp Game		I	X						93
II.B.2.c. Golden Mat			X	X					94
II.B.2.d. Small Bead Frame			X	X					95
II.B.3. Subtraction of two 7-digit numbers without exchanging	X	X	X	X	X	X	X	X	96
II.B.3.a. Large Bead Frames			X	X					97
II.B.4. Subtraction of two 7-digit numbers with exchanging	X	X	X	X	X	X	X	X	98
II.B.4.a. Large Bead Frames			X	X					99
II.B.5. Subtraction: Activities Leading To The Memorization of Subtraction Facts	X	X	X	X	X	X	X	X	100
II.B.5.a. Basic subtraction facts: Relationships between the numbers 1-18	X	X	X	X	X	X	X	X	101
II.B.5.a1. Subtraction Strip Board		I	X						102
II.B.5.a2. Subtraction Charts		I	X						103
II.B.5.a3. Flash Cards		I	X						104
II.B.5.a4. Negative Snake Game			I	X					105

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	N	K	1st	2nd	3rd	4th	5th	6th	Serial #
II.B.5.b. Missing Factors	X	X	X	X	X	X	X	X	106
II.B.5.b1. Bead Bars			X	X					107
II.B.5.b2. Flash Cards			X	X					108
II.B.6. Subtraction: The Passage To Abstraction	X	X	X	X	X	X	X	X	109
II.B.6.a. Numbers up to 4 digits				X	X				110
II.B.6.b. Numbers up to 7 digits				X	X				111
II.C. MULTIPLICATION	X	X	X	X	X	X	X	X	112
II.C.1. The Process of Multiplication	X	X	X	X	X	X	X	X	113
II.C.1.a. Multiplication of a 4 digit number by a 1 digit multiplier	X	X	X	X	X	X	X	X	114
II.C.1.a1. Golden Beads	X	X							115
II.C.1.a2. Stamp Game		X	X	X					116
II.C.1.a3. Golden Mat				X					117
II.C.1.a4. Small Bead Frame				X					118
II.C.1.b. Multiplication of a 7 digit number by a 1 digit multiplier	X	X	X	X	X	X	X	X	119
II.C.1.b1. Golden Mat				X	X				120

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II.C.1.b2. Large Bead Frame				X	X				121
II.C.1.b3. Multiplication Checkerboard				I	X				122
II.C.1.b4. Flat Bead Frame				I	X				123
II.C.1.c. Multiplication of a 7 digit number by a 2 digit multiplier	X	X	X	X	X	X	X	X	124
II.C.1.c1. Golden Mat					X				125
II.C.1.c2. Large Bead Frame					X				126
II.C.1.c3. Multiplication Checkerboard					X	X			127
II.C.1.c4. Flat Bead Frame					X	X			128
II.C.1.c5. Junior Bank Game					X	X			129
II.C.2. Multiplication: Activities Leading To The Memorization of Multiplication Facts	X	X	X	X	X	X	X	X	130
II.C.2.a. Basic multiplication facts: Tables 1-10	X	X	X	X	X	X	X	X	131
II.C.2.a1. Bead Chains		I	X	X	X				132
II.C.2.a2. Bead Bars		I	X	X	X				133
II.C.2.a3. Multiplication Charts			I	X	X				134
II.C.2.a4. Flash Cards			I	X	X				135

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II.D.1.b1. Golden Beads		I							151
II.D.1.b2. Stamp Game		I	X	X					152
II.D.1.b3. Golden Mat				X	X				153
II.D.1.b4. Long Division Racks And Tubes				X	X				154
II.D.1.c. Division of a 7 digit number by 1 digit divisor with or without a remainder	X	X	X	X	X	X	X	X	155
II.D.1.c1. Golden Mat				X	X				156
II.D.1.c2. Long Division Racks And Tubes				X	X				157
II.D.1.d. Division of a 7 digit number by a 2-digit divisor with or without a remainder d1. Long Division				I	X	X			158
II.D.1.e. Division of a 7 digit number by a 3 or 4-digit divisor with or without a remainder	X	X	X	X	X	X	X	X	159
II.D.1.e1. Long Division Racks And Tubes					X	X	X		160
II.D.2. Division: Exercises Leading To The Memorization of Division Facts	X	X	X	X	X	X	X	X	161
II.D.2.a. Basic division facts: Divisors 1-9	X	X	X	X	X	X	X	X	162
II.D.2.a1. Units Division Board				X	X				163
II.D.2.b. Basic division facts for divisor of 10					X	X	X		164
II.D.2.c. Missing Factors						X	X		165

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	N	K	1st	2nd	3rd	4th	5th	6th	Serial #
IV.A. Introduction To Fractions	X	X	X	X	X	X	X	X	181
IV.A.1. Recognition of fractions: concrete material & symbol	X	X	X	X	X	X	X	X	182
IV.A.1.a. Fraction Skittles		I	X	X					183
IV.A.1.b. Fraction Circles		I	X	X	X				184
IV.A.2. Equivalences	X	X	X	X	X	X	X	X	185
IV.A.2.a. Fraction Circles			X	X	X				186
IV.A.2.b. Fraction Circle Box				X	X				187
IV.A.2.c. Fraction Charts				X	X				188
IV.B. Operations With Fractions	X	X	X	X	X	X	X	X	189
IV.B.1. Addition of fractions that share a common denominator	X	X	X	X	X	X	X	X	190
IV.B.1.a. Fraction Circles			X	X					191
IV.B.1.b. Fraction Circle Box				X	X	X			192
IV.B.1.c. Fraction Charts				X	X	X			193
IV.B.2. Subtraction of fractions that share a common denominator	X	X	X	X	X	X	X	X	194
IV.B.2.a. Fraction Circles				X	X	X			195

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	N	K	1st	2nd	3rd	4th	5th	6th	Serial #
V.A.1.a. Decimal Fraction Board						I	X	X	241
V.A.2. Equivalences to regular fractions: $1/2$ to $1/10$	X	X	X	X	X	X	X	X	242
V.A.2.a. Fraction Circles						I	X	X	243
V.A.2.b. Decimal Fraction Board						I	X	X	244
V.A.2.3. Equivalences to any other regular fractions						I	X	X	245
V.B. Operations With Decimal Fractions	X	X	X	X	X	X	X	X	246
V.B.1. Addition of Decimal Fractions	X	X	X	X	X	X	X	X	247
V.B.1.a. Decimal Fraction Board						I	X	X	248
V.B.2. Subtraction of Decimal Fractions	X	X	X	X	X	X	X	X	249
V.B.2.a. Decimal Fraction Board						I	X	X	250
V.B.3. Multiplication of Decimal Fractions	X	X	X	X	X	X	X	X	251
V.B.3.a. Decimal Fraction Board							X	X	252
V.B.4. Division of Decimal Fractions	X	X	X	X	X	X	X	X	253
V.B.4.a. Decimal Fraction Board							X	X	254
V.B.5. Nomenclature and Recognition of Decimal Fractions to .999999						I	X	X	255

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	N	K	1st	2nd	3rd	4th	5th	6th	Serial #
V.C. Conversion of fractions (less than 1) to percent equivalents							X	X	256
V.D. Conversion of percents (less than 1) to fraction equivalents							X	X	257
	X	X	X	X	X	X	X	X	258
VI. ROUNDING OFF NUMBERS	X	X	X	X	X	X	X	X	259
VI.A. Can round whole numbers off to the nearest unit of tens, hundreds, or thousands				I	X	X			260
VI.B. Can round mixed numbers off to the nearest whole number					I	X			261
VI.C. Can round mixed numbers off to the nearest unit of tenths, hundredths, or thousandths						X			262
VI.D. Can accurately estimate sums or differences, using sums up to 3 digits						X	X	X	263
VI.E. Can estimate sums, differences, products, or quotients, using very large sums or very small								X	264
VII. PRACTICAL APPLICATIONS OF MATHEMATICS	X	X	X	X	X	X	X	X	265
VII.A. Solving Word Problems	X	X	X	X	X	X	X	X	266
VII.A.1. Addition			X	X	X	X			267
VII.A.2. Subtraction			X	X	X	X			268
VII.A.3. Multiplication				X	X	X	X		269
VII.A.4. Division				X	X	X	X		270

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VII.C.4.e. Practical Applications:				I	X	X	X	X	316
VII.D. Graphs	X	X	X	X	X	X	X	X	317
VII.E.1. Can read graphs and make inferences from the information graphically displayed	X	X	X	X	X	X	X	X	318
VII.E.1.a. Picture graphs		I	X	X	X				319
VII.E.1.b. Circle graphs			I	X	X	X	X	X	320
VII.E.1.c. Bar graphs		I	X	X	X	X	X	X	321
VII.E.1.d. Line graphs				I	X	X	X	X	322
VII.E.1.e. Scatter distributions						I	X	X	323
VII.E.2. Can prepare graphs from gathered data:	X	X	X	X	X	X	X	X	324
VII.E.2.a. Picture graphs			I	X	X				325
VII.E.2.b. Circle graphs using fractions				I	X	X	X	X	326
VII.E.2.c. Bar graphs			I	X	X	X	X	X	327
VII.E.2.d. Line graphs				I	X	X	X	X	328
VII.E.2.e. Scatter distributions						I	X	X	329
VII.E.2.f. Graphs for two variables						I	X	X	330

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VIII.A. Is familiar with the relationships between simple quantities and sets and their symbols	X	X	X	X	X	X	X	X	346
VIII.A.1. “Greater Than ...” (>)			I	X		X			347
VIII.A.2. “Less Than ...”			I	X		X			348
VIII.A.3. “Equal To..”		I	X	X		X			349
VIII.B. Is familiar with the relationships between quantities involving multiple operations ($3 \times 4 > 2 + 3$)	X	X	X	X	X	X	X	X	350
VIII.B.1. “Greater Than ...” (>)			I	X		X			351
VIII.B.2. “Less Than ...”			I	X		X			352
VIII.B.3. “Equal To..”			I	X		X			353
IX. Ratios and percents	X	X	X	X	X	X	X	X	354
IX.A. Can write the ratio of two quantities as a fraction						I	X	X	355
IX.B. Can solve for a missing term in a proportion						I	X	X	356
IX.C. Can write a ratio with a denominator of 100 as a percent (%) and a percent as a ratio with a denominator						I	X	X	357
IX.D. Can write a decimal (less than 1) as a percent and a percent (less than 100%) as a decimal						I	X	X	358
IX.E. Can write a percent as a fraction in simplest form and a common fraction as a percent						I	X	X	359
IX.F. Can find a percent (greater than 1% but less than 100%) of a given number						I	X	X	360

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XII.B.2.a. Bead Bars			I	X	X	X	X		391
XII.B.2.b. Bead Cabinet			I	X	X	X	X		392
XII.B.3. Can calculate the square of a binomial					I	X	X	X	393
XII.B.4. Can calculate the square of a trinomial					I	X	X	X	394
XII.B.5. Can calculate the cube of a binomial						I	X	X	395
XII.B.6. Can calculate the cube of a trinomial						I	X	X	396
XII.B.7. Can calculate square roots					I	X	X	X	397
XII.B.8. Can calculate the square roots of binomials					I	X	X	X	398
XII.B.9. Can calculate the square roots of trinomials						I	X	X	399
XII.B.10. Can calculate cube roots							I	X	400
XII.B.11. Can calculate the cube roots of binomials							I	X	401
XII.B.12. Can calculate the cube roots of trinomials							I	X	402
XII.B.13. Understands and can calculate exponents	X	X	X	X	X	X	X	X	403
XII.B.13.a. Exponential notation 10 ¹ through 10 ⁶						I	X	X	404
XII.B.13.b. Exponential notation 10 ⁻¹ through 10 ⁻⁶						I	X	X	405

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XII.B.13.c. Exponential notation 100 through 106						I	X	X	406
XII.B.13.d. Exponential notation 107 through 1012						I	X	X	407
XII.B.13.e. Exponential notation 10-1 through 10-6						I	X	X	408
XII.C. Scientific notation	X	X	X	X	X	X	X	X	409
XII.C.1. Can convert large whole numbers to scientific notation						I	X	X	410
XII.C.2. Can convert very small decimal fractions to scientific notation						I	X	X	411
XIII.Geometry	X	X	X	X	X	X	X	X	412
XIII.A. Recognition and nomenclature of geometric figures	X	X	X	X	X	X	X	X	413
XIII.1. Can identify basic geometric shapes	I	X							414
XIII.A.2. Can identify types of triangle by their sides		I	X	X					415
XIII.A.3. Can identify types of triangle by their angles: right, scalene, obtuse, equilateral		I	X	X	X	X			416
XIII.A.4. Can identify regular polygons through the decagon	I	X	X	X	X	X			417
XIII.A.5. Can identify irregular polygons through the decagon		I	X	X	X	X			418
XIII.A.6. Can identify all of the quadrilaterals	I	X	X	X	X	X			419
XIII.A.7. Can differentiate between a circle, ellipse, and oval	I	X	X						420

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XIII.A.8. Can identify a cube, sphere, cylinder, pyramid, and cone	I	X	X						421
XIII.A.9. Can identify a rectangular prism, triangular prism, ovoid, and ellipsoid	I	X	X						422
XIII.A.10. Can identify the faces, edges, and surfaces of solid geometric objects		I	X	X	X	X			423
XIII.A.11. Can identify congruent shapes by matching	I	X	X	X	X	X			424
XIII.A.12. Can identify the parts of a circle: radius, diameter, circumference				I	X	X	X		425
XIII.A.13. Can identify the parts of a triangle				I	X	X	X		426
XIII.A.14. Can identify the parts of a square				I	X	X	X		427
XIII.B. Angles, similarities and congruence	X	X	X	X	X	X	X	X	428
XIII.B.1. Can measure angles with a protractor				I	X	X			429
XIII.B.2. Can add angles and compute arcs				I	X	X			430
XIII.B.3. Can recognize congruent figures			I	X	X	X			431
XIII.B.4. Can recognize similar figures			I	X	X	X			432
XIII.B.5. Can recognize equivalent figures			I	X	X	X			433
XIII.B.6. Can identify angles as being acute, right, obtuse, and straight			I	X	X	X			434
XIII.B.7. Can identify the relations between two straight lines: parallel & perpendicular			I	X	X	X			435

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XIII.B.8. Can name angles formed by two straight lines cut by a transversal				X	X	X			436
XIII.B.9. Can name the relationships between two angles				X	X	X			437
XIII.B.10. The Pythagorean Theorem	X	X	X	X	X	X	X	X	438
XIII.B.10.a. Recognizes the 3-4-5 case of the Pythagorean Theorem								I	439
XIII.B.10.b.. Recognizes the isosceles right triangle case of the Pythagorean Theorem								I	440
XIII.B.10.c.. Understands the generalized proof of the Pythagorean Theorem								I	441
XIII.B.11. Can identify the sum of the interior angles of a triangle or regular polygon						I	X	X	442
	X	X	X	X	X	X	X	X	443
XIII.C.. Construction of geometric figures	X	X	X	X	X	X	X	X	444
XIII.C.1. Can demonstrate line symmetry in a given shape by folding along its center line	I	X	X	X	X	X	X	X	445
XIII.C.2. Can construct an angle of a given measure with a protractor and straightedge				I	X				446
XIII.C.3. Can bisect an angle with a compass and straightedge				I	X	X	X	X	447
XIII.C.4. Can bisect a line segment with a compass and straightedge				I	X	X	X	X	448
XIII.C.5. Can draw a line perpendicular to another line with a straightedge, compass, and protractor				I	X	X	X	X	449
XIII.C.6. Can draw a line parallel to another line with a straightedge, compass, and protractor				I	X	X	X	X	450

Mathematics Scope and Sequence

Curriculum Element — Commonly, by the grade level(s) given below, the student will be able to:

	N	K	1st	2nd	3rd	4th	5th	6th	Serial #
XIII.C.7. Can construct a square with a protractor and straightedge				I	X	X	X	X	451
XIII.C.8. Can construct a circle with a compass					I	X	X	X	452
XIII.C.9. Can construct an ellipse					I	X	X	X	453
XIII.C.10. Can measure the radius and diameter of a circle					I	X			454
XIII.C.11. Can measure the circumference of a circle				I	X	X	X		455
XIII.C.12. Can construct a scale model or drawing of an object given a scale to follow						I	X		456
XIII.C.13. Can construct a tetrahedron						I	X	X	457
XIII.C.14. Can construct a cube						I	X	X	458
XIII.C.15. Construct an octagon, dodecahedra, icosahedra						I	X	X	459
XIII.D. CALCULATION OF AREA	X	X	X	X	X	X	X	X	460
XIII.D.1. Can calculate the area of a square					I	X	X		461
XIII.D.2. Can calculate the area of a rectangle					I	X	X		462
XIII.D.3. Can calculate the area of a triangle						I	X	X	463
XIII.D.4. Can calculate the area of a parallelogram						I	X	X	464
XIII.D.5. Can calculate the area of a trapezoid						I	X	X	465

