

Beginning-of-Year Fundamentals

This grade-specific fundamentals chart will help you think about which content and standards from the year before support key new ideas in the next year. We focused on the priority standards that support the math concepts taught in the first two months of the school year to better help you jump start learning.

Grade 1

Concept Covered	Grade K Standard (Pre-requisite)	Grade 1 Standard (BOY Fundamental)	Key Math Skills
Number	K.CC.B.5	1.NBT.A.1	Counting
Number	K.CC.B.4	1.NBT.A.1, 1.OA.C.5	Comparing
Number	K.CC.B.4a	1.OA.C.5	Counting
Number	K.CC.B.4b	1.NBT.A.1	Counting
Number	K.CC.C.6	1.NBT.A.1	Comparing
Number	K.CC.C.7	1.NBT.A.1	Comparing
Addition	K.OA.A.1	1.OA.C.6, 1.OA.D.8, 1.NBT.A.1	Write an equation
Subtraction	K.OA.A.2	1.OA.A.1, 1.OA.B.3, 1.OA.B.4	Write an equation
Addition	K.OA.A.3	1.OA.C.6	Match equation and picture
Addition	K.OA.A.4	1.OA.C.6	Solve equation
Subtraction	K.OA.A.5	1.OA.C.6	Solve equation



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Grade 2

Concept Covered	Grade 1 Standard (Pre-requisite)	Grade 2 Standard (BOY Fundamental)	Key Math Skills
Subtraction; whole numbers	1.OA.A.1	2.OA.B.2	Additive Comparison
Addition: whole numbers	1.OA.B.3	2.NBT.B.9	Making Ten
Addition and Subtraction: Whole numbers	1.OA.B.4	2.NBT.B.9	Relating Addition & Subtraction
Addition and Subtraction: Whole numbers	1.OA.D.7	2.OA.C.3, 2.OA.C.4	Equivalence
Addition and Subtraction: Whole numbers	1.OA.D.8	2.OA.A.1	Subtracting multiples of ten
Number	1.NBT.B.2	2.NBT.A.1	Place value
Number	1.NBT.B.2a	2.NBT.A.1	Place value
Number	1.NBT.C.4	2.OA.A.1, 2.NBT.B.5	Comparing quantities
Number	1.NBT.C.5	2.OA.A.1, 2.NBT.B.5	Place value
Number	1.MD.A.2	2.MD.A.1	Measuring length



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Grade 3

Concept Covered	Grade 2 Standard (Pre-requisite)	Grade 3 Standard (BOY Fundamental)	Key Math Skills
Sums less than or equal to 20	2.OA.A.1	3.OA.D.9, 3.NBT.A.2	Addition word problem
Differences within 20	2.OA.B.2	3.NBT.A.2	Subtraction word problem
Differences within 20	2.OA.B.2	3.NBT.A.2	Writing a subtraction equation
Sums less than or equal to 20	2.OA.A.1	3.NBT.A.2	Writing an addition equation
Representing 3 -digit numbers	2.NBT.A.1	3.NBT.A.1	Place value
Representing 3 -digit numbers	2.NBT.A.1	3.NBT.A.1	Place value
Representing 3 -digit numbers	2.NBT.A.2	3.NBT.A.1	Place value
Representing 3 -digit numbers	2.NBT.A.3	3.NBT.A.1	Place value
Use place value strategies to add	2.NBT.B.5	3.NBT.A.2	Adding on a number line
Use place value strategies to subtract	2.NBT.B.7	3.NBT.A.2	Subtracting with base ten blocks
Use place value to subtract	2.NBT.B.7	3.NBT.A.2	Subtracting on a number line
Explain a computation strategy	2.NBT.B.9	3.NBT.A.2	Subtracting 3 digit numbers
Use number lines to explain addition	2.MD.B.6	3.NBT.A.2	Adding on a number line
Use place value to add	2.MD.B.5	3.NBT.A.2	Subtracting on a number line



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Grade 4

Concept Covered	Grade 3 Standard (Pre-requisite)	Grade 4 Standard (BOY Fundamental)	Key Math Skills
Representing Multiplication (arrays)	3.OA.A.1	4.NBT.B.5	Representing multiplication as an array
Representing Division	3.OA.A.2	4.NBT.B.6	Representing division as an array
Solve Division word problems	3.OA.A.3	4.NBT.B.6	Division word problem
Solve multiplication word problems	3.OA.A.3	4.NBT.B.6	Multiplication word problem
Extending Multiplication Facts	3.OA.A.3	4.NBT.B.5	Multiplying by multiples of ten
Finding unknown amount in division	3.OA.A.4	4.NBT.B.5	Solving a division equation
Finding unknown amount in multiplication	3.OA.A.4	4.NBT.B.5	Solving a multiplication equation
Applying Associative Property	3.OA.B.5	4.NBT.B.5	Use the doubling/halving strategy
Applying Distributive Property	3.OA.B.5	4.NBT.B.5	Using partial products to multiply
Connecting multiplication and division	3.OA.C.7	4.NBT.B.5	Recognizing related multiplication & division equations
Connecting multiplication and division	3.OA.C.7	4.NBT.B.5	Recognizing related multiplication & division equations
Problem solving involving all operations (order of operations)	3.OA.D.8	4.NBT.B.5	Solving a multi-step word problem
Common Fractions	3.NF.A.1	4.NF.A.1	Recognizing unit fractions
Common Fractions	3.NF.A.1	4.NF.A.1	Representing fractions on a number line
Identifying improper fractions on number line	3.NF.A.2	4.NF.A.1	Representing fractions on a number line
Equivalent Fractions	3.NF.A.3	4.NF.A.1	Representing fractions on a number line
Equivalent Fractions	3.NF.A.3	4.NF.A.1	Recognizing equivalent fractions
Comparing fractions (same denominator)	3.NF.A.3d	4.NF.A.1, 4.NF.A.2	Comparing fractions



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Grade 5

Concept Covered	Grade 4 Standard (Pre-requisite)	Grade 5 Standard (BOY Fundamental)	Key Math Skills
Multiplicative relationship	4.NBT.A.1	5.NBT.A.1	Place value 10x relationship
Multiplicative relationship	4.NBT.A.1	5.NBT.A.1	Place value 10x relationship
Partial products (precursor to standard algorithm)	4.NBT.B.5	5.NBT.B.5	Multiplying with partial products
Solving multiplication word problems	4.OA.A.3	5.NBT.B.5	Solving multiplication word problems
Solving multiplication word problems	4.OA.A.3	5.NBT.B.5	Solving multiplication word problems
Use a strategy to multiply	4.NBT.B.5	5.NBT.B.5	Reasoning about multiplication and equivalent expressions
Use a strategy to multiply	4.NBT.B.5	5.NBT.B.5	Reasoning about multiplication and equivalent expressions
Represent tenths and hundredths as decimal fractions	4.NF.C.6	5.NBT.3, 5.NBT.3.a	Representing decimal fractions
Represent tenths and hundredths as decimal fractions	4.NF.C.6	5.NBT.3, 5.NBT.3.a	Representing decimal fractions
Represent tenths and hundredths as decimal fractions	4.NF.C.6	5.NBT.3, 5.NBT.3.a	Representing decimal fractions
Relate common fractions, mixed number, and decimal fractions	4.NF.C.6	5.NBT.3, 5.NBT.3.a	Recognizing fraction and decimal equivalence
Relate common fractions, mixed number, and decimal fractions	4.NF.C.6	5.NBT.3, 5.NBT.3.a	Writing equivalent fractions and decimals
Relate common fractions, mixed number, and decimal fractions	4.NF.C.6	5.NBT.3, 5.NBT.3.a	Writing equivalent fractions and decimals
Compare and order tenths and hundredths	4.NF.C.7	5.NBT.3, 5.NBT.3.a	Comparing decimals
Compare and order tenths and hundredths	4.NF.C.7	5.NBT.3, 5.NBT.3.a	Ordering decimals



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Grade 6

Concept Covered	Grade 5 Standard (Pre-requisite)	Grade 6 Standard (BOY Fundamental)	Key Math Skills
Multiplicative relationship	5.NBT.A	6.NS.C	Place value 10x relationship
Multiplicative relationship	5.NBT.A	6.NS.C	Place value 10x relationship
Use exponents	5.NBT.A	6.NS.C	Exponential notation
Use exponents	5.NBT.A	6.NS.C	Exponential notation
Identify patterns when multiplying powers of 10	5.NBT.A	6.NS.C	Patterns in multiplication by place value
Multiplicative relationship	5.NBT.A.1	6.NS.C	Decimal place value
Multiplicative relationship	5.NBT.A.1	6.NS.C	Decimal place value
Patterns when dividing by multiples of powers of ten	5.NBT.A.2	6.NS.C	Patterns in division by place value
Compare and order decimals	5.NBT.A.3	6.NS.C	Comparing decimals
Compare and order decimals	5.NBT.A.3	6.NS.C	Ordering decimals
Coordinate Plane	5.G.A.1	6.NS.C	Graphing in the first quadrant
Coordinate Plane	5.G.A.1	6.NS.C	Graphing in the first quadrant
Coordinate Plane	5.G.A.1	6.NS.C	Graphing in the first quadrant
Coordinate Plane	5.G.A.1	6.NS.C	Graphing in the first quadrant
Distributive Property	5.NBT.B.7	6.NS, 6.EE	Recognizing equivalent multiplication expressions
Multiplication & division with decimals	5.NBT.B.7	6.NS.B	Solving division word problems
Multiplication & division with decimals	5.NBT.B.7	6.NS.B	Solving multistep word problems
Multiplication & division with decimals	5.NBT.B.7	6.NS.B	Recognizing equivalent division expressions

