

Course Outline

Grade K

Numbers to 10

Count 1-4

Count 1-5

Count 1-7

Count 1-9

Count 1-10

Count 0-10

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Represent 0-2

Represent 0-5

Represent 0-8

Represent 0-10

Numbers to 20

Count and Represent 0-13

Count and Represent 0-16

Count and Represent 0-19

Count and Represent 0-20

Compare Numbers to 10

Match to Find More

More, Fewer, and Same Amounts

Count to Find the Greater Number

Compare Two Numbers

Compare within 5

Compare within 10

Understand Addition within 10

Represent Addition within 5

Put Together Groups within 5

Explore Number Pairs for 0–5

Explore Number Pairs for 6–9 Explore Number Pairs for 10

Find Numbers that Make 10

Represent Addition within 10

Put Together Groups within 10

Understand Subtraction within 10

Decompose Numbers within 5

Represent Subtraction within 5

Solve Subtraction Equations within 5

Decompose Numbers 6–9

Represent Subtraction within 9

Solve Subtraction Equations within 9

Decompose 10

Solve Subtraction Problems within 10

Place Value with Teen Numbers

Show 11-14 as 10 Ones and Some More

Show 15-19 as 10 Ones and Some More

Teen Numbers with Drawings and Equations

Compose and Decompose Teen Numbers

Number Patterns

One Less/One More

Count to 100 by Ones

Count to 100 by Tens

Count Forward

Grade 1

Problem Solving: Addition

Model Joining Stories (to 5)

Ways to Make 6 and 7

Ways to Make 8 and 9

Model Joining Stories (to 9)

Commutative Property and Add Zero Property

Ways to Make 10

Model Equations to Represent Addition Stories

Write Equations to Represent Addition Stories

Problem Solving: Subtraction

Addition and Subtraction Fact Families

Model Take From Stories

Find Missing Parts of 7 and 8

Model Equations to Represent Subtraction Stories

Find Missing Parts of 9 and 10

Model Take-Apart/Separating Stories

Write Equations to Represent Subtraction Stories

Compare Stories

Relate Addition and Subtraction

Addition and Subtraction Strategies

Count On

Use a Known Fact to Add

Related Subtraction Facts through 12

Use 10 to Subtract

Related Subtraction Facts through 20

Find Unknowns on Addition Table

More Work with Addition

Numbers Related to 10

Make 10 to Add 7 and 8

Make 10 to Add 9

Use Strategies to Add

Add Three Addends

Addition and Subtraction Equations

Understand Place Value

Count Forward to 120

Teen Numbers

Tens and Ones

Make Numbers with Tens and Extras

Compare Numbers through Hundreds

Read and Write Numbers

Use Place Value and Properties of Operations to Add and Subtract

Add Two Multiples of 10

Add a Multiple of 10 to a 2-Digit Number on a Hundred Chart

Add a Multiple of 10 to a 2-Digit Number

Add 2-Digit Numbers

Subtract Multiples of 10 from Multiples of 10

Number Strategies and Measurement

Skip-Counting

Add or Subtract 1 and 10 on a Number Chart

Compare and Order Lengths

Measure Length with Same-Size Units



Course Outline

Grade 2

Use Models to Add and Subtract

Use the Addition Table to Add

Use the Addition Table to Add and Subtract Find Missing Addends with the Hundred Chart Add and Subtract with the Hundred Chart

Add and Subtract within 20 Using Base Ten Blocks

Add and Subtract within 20 Using the Number Line

Add and Subtract within 100 Using Base Ten Blocks

Add and Subtract within 100 Using the Number Line

Use Tape Diagrams to Add

Use Tape Diagrams to Add and Subtract

Use Strategies to Add and Subtract

Make a Ten to Add

Make a Ten to Subtract

Two-step Problems

Make a Simpler Problem to Add

Make a Simpler Problem to Subtract

Problem Solving with Sums to 100

Problem Solving with Sums and Differences to 100

Numbers to 1000 and Place Value

Numbers through 100

Numbers through 1000

Represent Numbers on a Number Line

Compare Numbers Using Place Value

Addition with Multi-Digit Numbers Add

Tens to 2-Digit Numbers Find

Sums of 2-Digit Numbers

Use Strategies to Add 3-Digit Numbers

Add Tens to 3-Digit Numbers

Find Sums of 3-Digit Numbers

Find Sums of Multi-Digit Numbers

Find Sums of More than Two Numbers

Problem Solving with Addition

Subtraction with Multi-Digit Numbers Decompose

to Subtract 2-Digit Numbers Find

Differences of 2-Digit Numbers Problem

Solving with 2-Digit Numbers

Use Strategies to Subtract 3-Digit Numbers

Subtract Tens from 3-Digit Numbers

Subtract 3-Digit Numbers

Subtract Multi-Digit Numbers

Measure Length

Measurement Tools

Lengths in Inches and Feet

Lengths in Centimeters and Meters

Compare Lengths

Add and Subtract Lengths

Find the Sums of Lengths

Find the Differences of Lengths

Problem Solving with Lengths

Compare Problems with Lengths

Grade 3

Understand Multiplication

Equal Groups: Repeated Addition

Equal Groups in Multiplication: Unknown Items Per Group Equal Groups in Multiplication: Unknown Number of Groups

Equal Groups: Rows

Equal Groups: The Array Model

Commutative Property of Multiplication

Multiplicative Identity Property and Zero Property of Multiplication

Multiplication in 1-Step Problem Solving

Concept of Area

Compare Areas of Rectangles

Tile Rectangles to Find Area

Area Formula

Decompose a Rectangle to Find Area

Area with Customary Units

Area with Metric Units

Decompose Figures to Find Area

Patterns in Multiplication

Multiply by 2

Multiply by 3 and 5

Introduction to Multiplication Tables

Use Multiplication Tables

Basic Multiplication Facts

 $Patterns\ in\ the\ Multiplication\ Table$

Learn Multiplication Facts

Understand Division

Equal Groups in Division: Unknown Items Per Group Equal Groups in Division: Unknown Number of Groups

Equal Groups: Tape Diagrams

Equal Groups: Arrays

Problem Solving with Related Facts

Use Mixed Operations to Solve Problems

Order of Operations with Parentheses

 $Order\ of\ Operations\ without\ Parentheses$

Associative and Commutative Properties

Multiples of Ten

Use Tape Diagrams to Solve Multiplication and Div. Problems

Problem Solving with Mixed Operations

Measurement: Time, Volume, and Mass

Tell Time

Problem Solving with Elapsed Time

Liquid Volume

Mass

Fraction Concepts

Model Equal Parts

Use Fraction Bars to Name Fractions

Use Fraction Rectangles and Circles to Name Fractions

Find Equivalent Fractions

Compare Fractions

Find Fractions on a Number Line

Compare Fractions on a Number Line



Course Outline 2018-2019

Grade 4

Foundations in Base Ten

Read and Write Multi-Digit Numbers

Place Value Relationships

Compare Numbers

Round Numbers

Addition

Subtraction

Problem Solving with Addition and Subtraction

Multiplication and Division

Multiplication as Comparison

Tape Diagrams and Multiplicative Comparison

Find Missing Factors

Factors and Multiples*

Investigate Remainders

Extend Multiplication Concepts

Multiply by 10, 100, and 1000

Estimate Products

Use Area Diagram to Multiply by 1-Digit Number

Use Distributive Property to Multiply by 1-Digit Number

Use Area Diagram to Multiply by 2-Digit Number

Use Distributive Property to Multiply by 2-Digit Number

Multiplication in Problem Solving

Extend Division Concepts

Divide 10s, 100s, and 1000s

Estimate Quotients

Area Diagrams in Division

Distributive Property in Division

Zeros in Division

Problem Solving with 1-Digit Divisors

Problem Solving with Division and Other Operations

Equivalent Fractions

Fractions: Compare Whole Numbers to Make

New Numbers

Compare Fractions with Models

Compare and Order Fractions

Multiply to Create Equivalent Fractions

Divide to Create Equivalent Fractions

Operations with Fractions

Add Unit Fractions

Add Fractions

Subtract Fractions

Mixed Numbers

Improper Fractions

Problem Solving with Fractions with Like Denominators

Multiples of Unit Fractions

Multiply a Fraction by a Whole Number

Problem Solving with Fractions and Mixed Operations

Decimal Fraction Concepts

Decimal Fractions

Add Decimal Fractions

Write Fractions in Decimal Notation Compare

Decimals in Tenths and Hundredths

Grade 5

Whole Numbers: Place Value & Multiplication

Place Value and Exponents

Multiply by 1-Digit Factors

Multiply by 2-Digit Factors

Use Algorithms with 1-Digit Factors

Use Algorithms with 2-Digit Factors

Whole Numbers: Division

Use Multiplication to Estimate Quotients

Use Rounding to Estimate Quotients

Use Repeated Subtraction and Multiples of 10

Use Models with 2-Digit Divisors

Methods for Division

Problem Solving with Division

*Decimals: Place Value and Operations

Decimal Place Value

Round Decimals

Compare Decimals

Add and Subtract Decimals

Multiply and Divide Tenths and Hundredths

Multiply Decimals

Divide Decimals

Problem Solving with Decimal Operations

Fractions: Addition and Subtraction

Equivalent Forms

Find Common Denominators Using Models

Find Common Denominators

Add and Subtract Fractions and Mixed Numbers Using Models

Add and Subtract Fractions and Mixed Numbers

Estimate Sums and Differences

Problem Solving with Addition and Subtraction of Fractions

Fractions: Multiplication and Division

Inverse Operations

Multiply Fractions Using Bar Models

Multiply Fractions Using a Number Line

Multiply Fractions Using an Area Diagram

Scale

Divide Whole Numbers by Unit Fractions

Divide Unit Fractions by Whole Numbers

Problem Solving with Multiplication and Division of Fractions

Volume: Right Rectangular Prisms

Unit Cubes

Determine Volume Using Cubes

Examine Layers, Rows, and Columns

Explore Nets

Volume Formulas

Problem Solving with Volume

Coordinate Graphs

Coordinate Plane

Ordered Pairs

Connect Points in the Plane

Use the Coordinate Plane



Course Outline 2018-2019

Grade 6

Rational Numbers and Absolute Value

Explore Integers

Rational Numbers

Compare and Order Rational Numbers

Understand Absolute Value

Problem Solving with Absolute Value

Rational Numbers in the Coordinate Plane

Graphs on the Coordinate Plane

Distance in the Coordinate Plane

Reflections on the Coordinate Plane

Problem Solving with the Coordinate Plane

Division of Fractions

Model Division with Unit Fractions

Model Fraction Division

Write Fraction Division Equations

Fraction Division with Equations

Create, Model, and Solve Problems with

Fraction Division

Problem Solving with Fractions and Mixed Numbers

Ratios and Rates

Visualize and Represent Ratios

Compare Ratios

Unit Rates

Graph Rates and Other Ratios

Convert Measurement Units

Problem Solving with Unit Rates

Proportions and Proportional Reasoning

Write Proportions

Strategies to Solve Proportions

Percents

Solve Percent Problems

Problem Solving with Proportions

Algebraic Reasoning: Write and Evaluate Expressions

Introduction to Exponents

Order of Operations

Numerical Expressions

Transition to Algebraic Expressions

Read and Write Algebraic Expressions Part 1

Read and Write Algebraic Expressions Part 2

Equivalent Expressions

Use Equivalent Expressions to Simplify

Problem Solving with Algebraic Expressions

Equations and Inequalities

Check for Solutions to Equations

Write 1-Variable Equations

Solve 1-Variable Equations

Problem Solving with One-Variable Equations

Represent 2-Variable Relationships

Analyze Relationships Using Tables and Graphs

Relate Tables and Graphs to Equations

Write Inequalities

Solutions of Inequalities

Grade 7

Operations with Integers

Add and Subtract Integers on the Number Line

Add and Subtract Integers

Multiply Integers on the Number Line

Multiply Integers

Multiply and Divide Integers

Problem Solving with Integers

Operations with Rational Numbers

Add, Subtract, and Multiply Rational Numbers

Operations with Rational Numbers

Multiply and Divide Rational Numbers

Fractions as Division

Numerical Expressions with Rational Numbers

Decimals and Fractions

Problem Solving with Rational Numbers

Unit Rates and Proportional Reasoning

Find and Compare Unit Rates

Identify Proportional Relationships from Tables and Graphs

Proportional Relationships in Tables and Graphs

Tables, Graphs, and Equations of Proportional Relationships

Scale Drawings

Represent Proportional Relationships

Problem Solving with Unit Rates and Constant of Proportionality

Proportional Reasoning and Percents

Represent and Solve Proportions

Proportional Relationships and Percents

Proportional Relationships and Percent Change

Problem Solving with Percent Change

Problem Solving with Proportional Relationships

Algebraic Expressions

Add and Subtract Linear Expressions

Expand Linear Expressions

Expand and Factor Linear Expressions

Analyze Equivalent Expressions

Simplify Multi-Step Expressions

Write and Solve Equations and Inequalities for Problems

One-Step Equations with Rational Numbers Write

Multi-Step Equations to Model Problems Solve

Multi-Step Equations

Problem Solving with Equations

Write Inequalities to Model Problems

Write and Solve Inequalities Part 1

Write and Solve Inequalities Part 2

Problem Solving with Inequalities

Equations in Measurement and Geometry

Circumference of a Circle

Area and Circumference of a Circle

Problem Solving with Circles

Area and Surface Area of 2-and 3-Dimensional Objects

Surface Area and Volume of 3-Dimensional Objects

Problem Solving with 2-and 3-Dimensional Objects