

## 3rd Grade Arithmetic (with QuickTables)

This course covers the topics shown below.  
Students navigate learning paths based on their level of readiness.  
Institutional users may customize the scope and sequence to meet curricular needs.

Curriculum (74 topics + 14 additional topics)

- Whole Numbers (49 topics)
  - Expanded Form and Numeral Translation (4 topics)
    - Whole number place value: Problem type 1
    - Expanded form
    - Numeral translation: Problem type 1
    - Adding or subtracting 10, 100, or 1000
  - Addition and Subtraction (15 topics)
    - One-digit addition with regrouping
    - Addition of 3 or 4 one-digit numbers
    - Adding a 2-digit number and a 1-digit number with regrouping
    - Adding 2-digit numbers without regrouping
    - Adding 2-digit numbers with regrouping a ten
    - Adding with regrouping a hundred
    - Addition of large numbers
    - Finding the value of a collection of coins
    - Finding the value of a collection of bills and coins
    - Subtracting a 1-digit number from a 2-digit number
    - Subtraction of 2-digit numbers without regrouping
    - Subtraction of 2-digit numbers with regrouping
    - Subtraction with multiple regrouping steps
    - Subtraction and regrouping with zeros
    - Word problem with addition or subtraction of whole numbers
  - Multiplication and Division (20 topics)
    - Multiplication as repeated addition
    - One-digit multiplication
    - Multiplication by 10, 100, and 1000
    - Understanding multiplication of a one-digit number with a larger number
    - Multiplying 2-digit and 1-digit numbers without regrouping
    - Multiplying with regrouping
    - Multiplication with trailing zeros: Problem type 1
    - Using multiplication to find the number of squares
    - Using addition and multiplication to count the objects on a grid
    - Multiples: Problem type 1
    - Multiples: Problem type 2
    - Division facts
    - Division without regrouping
    - Division with regrouping
    - Division with trailing zeros: Problem type 1
    - Quotient with remainder: 1-digit divisor, 2-digit dividend
    - Word problem on quotient and remainder
    - Quotient with remainder: 1-digit divisor, 3-digit dividend
    - Word problem with multiplication or division of whole numbers
    - Word problem with multiplication and addition or subtraction of whole numbers
  - Rounding, Estimation, and Order of Operations (9 topics)
    - Introduction to inequalities
    - Ordering large numbers
    - Rounding to tens or hundreds
    - Rounding to hundreds or thousands
    - Estimating a sum of whole numbers: Problem type 2
    - Estimating a difference of whole numbers: Problem type 2
    - Estimating a product
    - Estimating a quotient
    - Introduction to parentheses
  - Factors and Prime Numbers (1 topics)
    - Even and odd numbers
- Fractions (7 topics)

- Equivalent Fractions (3 topics)
  - Introduction to fractions
  - Equivalent fractions
  - Introduction to simplifying a fraction
- Ordering and Plotting Fractions (2 topics)
  - Ordering fractions with the same denominator
  - Ordering fractions with the same numerator
- Operations with Fractions (2 topics)
  - Addition or subtraction of fractions with the same denominator
  - Product of a unit fraction and a whole number
- Decimals (8 topics)
  - Place Value and Converting (4 topics)
    - Writing a decimal and a fraction for a shaded region
    - Decimal place value: Tenths and hundredths
    - Converting a decimal to a fraction: Basic
    - Converting a fraction with a denominator of 10, 100, or 1000 to a decimal
  - Operations with Decimals (4 topics)
    - Addition with money
    - Addition of aligned decimals
    - Subtraction of aligned decimals
    - Subtraction with money
- Measurement and Geometry (10 topics)
  - Customary Measurement (1 topics)
    - U.S. Customary unit conversion with whole number values
  - Metric Measurement (2 topics)
    - Metric distance conversion with whole number values
    - Metric mass or volume conversion with whole number values
  - Time (3 topics)
    - Time unit conversion with whole number values
    - Introduction to adding time
    - Introduction to elapsed time
  - Perimeter and Area (4 topics)
    - Perimeter and area on a grid
    - Perimeter of a square or a rectangle
    - Perimeter of a polygon
    - Area of a square or a rectangle
- Other Topics Available(\*) (14 additional topics)
  - Whole Numbers (5 topics)
    - Expanded form with zeros
    - Divisibility rules for 2, 5, and 10
    - Fact families for addition and subtraction
    - Fact families for multiplication and division
    - Finding the next terms of a sequence with whole numbers
  - Fractions (2 topics)
    - Understanding equivalent fractions
    - Writing a mixed number and an improper fraction for a shaded region
  - Decimals (3 topics)
    - Introduction to ordering decimals
    - Word problem with one decimal operation: Problem type 1
    - Word problem with one decimal operation: Problem type 2
  - Measurement and Geometry (4 topics)
    - Measuring length to the nearest inch
    - Telling time and determining a.m. or p.m.
    - Reading a calendar
    - Volume of a rectangular prism made of unit cubes

**\*Other Topics Available** By default, these topics are NOT included in the course, but can be added using the content editor in the Teacher Module.

**QuickTables** ALEKS QuickTables is a research-based, math fact mastery program for multiplication, division, addition, and subtraction for grades 3 and up. The online program offers ongoing assessment, learning, review, and visual tracking of student progress.