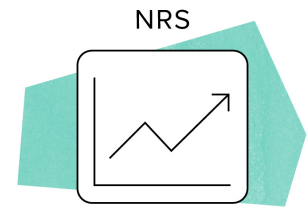


# NRS Math Alignments

This goal contains the following study paths:

1. NRS Level 1-2
2. NRS Level 3
3. NRS Level 4
4. NRS Level 5-6

Students can access the study paths in the displayed order. Only 'Level 1-2' is unlocked by default, but the next study path in the sequence will automatically be unlocked when students reach their target score (90).



## STUDY PATH 1: NRS Level 1-2

### Unit 1: Whole Numbers

#### Introduction to Whole Numbers

- Place Value and Names for Whole Numbers
- Rounding Whole Numbers
- Comparing Whole Numbers

#### Adding and Subtracting Whole Numbers

- Adding Whole Numbers and Applications
- Subtracting Whole Numbers and Applications
- Estimation

#### Multiplying and Dividing Whole Numbers

- Multiplying Whole Numbers and Applications
- Dividing Whole Numbers and Applications

#### Properties of Whole Numbers

- Properties and Laws of Whole Numbers
- The Distributive Property

#### Exponents, Square Roots, and Order of Operations

- Order of Operations

### Unit 2: Fractions and Mixed Numbers

#### Introduction to Fractions and Mixed Numbers

- Introduction to Fractions and Mixed Numbers
- Proper and Improper Fractions
- Factors and Primes
- Simplifying Fractions
- Comparing Fractions

### Unit 6: Measurement

#### U.S. Customary Units of Measurement

- Length
- Weight
- Capacity

#### Metric Units of Measurement

- The Metric System
- Converting Within the Metric System
- Using Metric Conversions to Solve Problems

#### Temperature

- Temperature Scales

### Unit 7: Geometry

#### Basic Geometric Concepts and Figures

- Figures in 1 and 2 Dimensions
- Properties of Angles

#### Perimeter, Circumference, and Area

- Perimeter and Area

#### Volume of Geometric Solids

- Solids

### Unit 8: Concepts in Statistics

#### Statistical Graphs and Tables

- Graphing Data
- Other Types of Graphs

## STUDY PATH 2: NRS Level 3

### Unit 1: Whole Numbers

#### Multiplying and Dividing Whole Numbers

- Multiplying Whole Numbers and Applications
- Dividing Whole Numbers and Applications

#### Properties of Whole Numbers

- The Distributive Property

#### Exponents, Square Roots, and Order of Operations

- Understanding Exponents and Square Roots
- Order of Operations

### Unit 2: Fractions and Mixed Numbers

#### Introduction to Fractions and Mixed Numbers

- Introduction to Fractions and Mixed Numbers
- Proper and Improper Fractions
- Factors and Primes
- Simplifying Fractions
- Comparing Fractions

### Unit 3: Decimals

#### Introduction to Decimals

- Decimals and Fractions
- Ordering and Rounding Decimals

#### Decimal Operations

- Adding and Subtracting Decimals
- Multiplying and Dividing Decimals
- Estimation With Decimals

*continued...*

*Topics that are also covered in a prior NRS study path are underlined.*

## Unit 6: Measurement

### U.S. Customary Units of Measurement

- [Length](#)
- [Weight](#)
- [Capacity](#)

### Metric Units of Measurement

- [The Metric System](#)
- [Converting Within the Metric System](#)
- [Using Metric Conversions to Solve Problems](#)

### Temperature

- [Temperature Scales](#)

## Unit 7: Geometry

### Basic Geometric Concepts and Figures

- [Figures in 1 and 2 Dimensions](#)
- [Properties of Angles](#)
- Triangles
- The Pythagorean Theorem

### Perimeter, Circumference, and Area

- Quadrilaterals
- [Perimeter and Area](#)
- Circles

## Unit 8: Concepts in Statistics

### Statistical Graphs and Tables

- [Graphing Data](#)
- [Other Types of Graphs](#)

### Measures of Center

- Measures of Center

### Probability

- Probability

## Unit 9: Real Numbers

### Properties of Real Numbers

- Associative, Commutative, and Distributive Properties

### Simplifying Expressions

- Order of Operations

## STUDY PATH 3: NRS Level 4

## Unit 1: Whole Numbers

### Exponents, Square Roots, and Order of Operations

- [Understanding Exponents and Square Roots](#)
- [Order of Operations](#)

## Unit 2: Fractions and Mixed Numbers

### Introduction to Fractions and Mixed Numbers

- [Introduction to Fractions and Mixed Numbers](#)
- [Proper and Improper Fractions](#)
- [Factors and Primes](#)
- [Simplifying Fractions](#)
- [Comparing Fractions](#)

### Multiplying and Dividing Fractions and Mixed Numbers

- Multiplying Fractions and Mixed Numbers
- Dividing Fractions and Mixed Numbers

### Adding and Subtracting Fractions and Mixed Numbers

- Adding Fractions and Mixed Numbers
- Subtracting Fractions and Mixed Numbers

## Unit 4: Ratios, Rates, and Proportions

### Ratios and Rates

- Simplifying Ratios and Rates

### Proportions

- Understanding Proportions

## Unit 5: Percents

### Introduction to Percents

- Convert Percents, Decimals, and Fractions

### Solving Percent Problems

- Solving Percent Problems

## Unit 6: Measurement

### U.S. Customary Units of Measurement

- [Length](#)
- [Weight](#)
- [Capacity](#)

### Metric Units of Measurement

- [The Metric System](#)
- [Converting Within the Metric System](#)
- [Using Metric Conversions to Solve Problems](#)

### Temperature

- [Temperature Scales](#)

## Unit 7: Geometry

### Basic Geometric Concepts and Figures

- [Figures in 1 and 2 Dimensions](#)
- [Properties of Angles](#)
- Triangles
- [The Pythagorean Theorem](#)

### Perimeter, Circumference, and Area

- Quadrilaterals
- [Perimeter and Area](#)
- Circles

### Volume of Geometric Solids

- Solids

## Unit 8: Concepts in Statistics

### Statistical Graphs and Tables

- [Graphing Data](#)
- [Other Types of Graphs](#)

### Measures of Center

- Measures of Center

### Graphical Representations

- Use and Misuse of Graphical Representations

### Probability

- Probability

## Unit 9: Real Numbers

### Introduction to Real Numbers

- Variables and Expressions
- Integers
- Rational Real Numbers

### Operations With Real Numbers

- Adding Integers
- Adding Real Numbers
- Subtracting Real Numbers
- Multiplying and Dividing Real Numbers

### Properties of Real Numbers

- [Associative, Commutative, and Distributive Properties](#)

### Simplifying Expressions

- [Order of Operations](#)

*continued...*



## Unit 10: Solving Equations and Inequalities

### Solving Equations

- Solving One-Step Equations Using Properties of Equality
- Solving Multi-Step Equations
- Special Cases and Applications
- Formulas

### Solving Inequalities

- Solving One-Step Inequalities
- Multi-Step Inequalities

### Compound Inequalities and Absolute Value

- Compound Inequalities
- Equations and Inequalities and Absolute Value



## Unit 11: Exponents and Polynomials

### Integer Exponents

- Exponential Notation
- Simplify by Using the Product, Quotient, and Power Rules
- Products and Quotients Raised to Powers
- Scientific Notation



## Unit 13: Graphing

### Graphs and Applications

- The Coordinate Plane
- Graphing Linear Equations



## Unit 15: Rational Expressions

### Operations With Rational Expressions

- Introduction to Rational Expressions
- Multiplying and Dividing Rational Expressions
- Adding and Subtracting Rational Expressions

# STUDY PATH 4: NRS Level 5-6



## Unit 1: Whole Numbers

### Properties of Whole Numbers

- [The Distributive Property](#)

### Exponents, Square Roots, and Order of Operations

- [Understanding Exponents and Square Roots](#)
- [Order of Operations](#)



## Unit 2: Fractions and Mixed Numbers

### Introduction to Fractions and Mixed Numbers

- [Introduction to Fractions and Mixed Numbers](#)
- [Proper and Improper Fractions](#)
- [Factors and Primes](#)
- [Simplifying Fractions](#)
- [Comparing Fractions](#)

### Multiplying and Dividing Fractions and Mixed Numbers

- [Multiplying Fractions and Mixed Numbers](#)
- [Dividing Fractions and Mixed Numbers](#)

### Adding and Subtracting Fractions and Mixed Numbers

- [Adding Fractions and Mixed Numbers](#)
- [Subtracting Fractions and Mixed Numbers](#)



## Unit 3: Decimals

### Introduction to Decimals

- [Decimals and Fractions](#)
- [Ordering and Rounding Decimals](#)

### Decimal Operations

- [Adding and Subtracting Decimals](#)
- [Multiplying and Dividing Decimals](#)
- [Estimation With Decimals](#)



## Unit 4: Ratios, Rates, and Proportions

### Ratios and Rates

- [Simplifying Ratios and Rates](#)

### Proportions

- [Understanding Proportions](#)



## Unit 5: Percents

### Introduction to Percents

- [Convert Percents, Decimals, and Fractions](#)

### Solving Percent Problems

- [Solving Percent Problems](#)



## Unit 6: Measurement

### U.S. Customary Units of Measurement

- [Length](#)
- [Weight](#)
- [Capacity](#)

### Metric Units of Measurement

- [The Metric System](#)
- [Converting Within the Metric System](#)
- [Using Metric Conversions to Solve Problems](#)

### Temperature

- [Temperature Scales](#)



## Unit 7: Geometry

### Basic Geometric Concepts and Figures

- [Figures in 1 and 2 Dimensions](#)
- [Properties of Angles](#)
- [Triangles](#)
- [The Pythagorean Theorem](#)

### Perimeter, Circumference, and Area

- [Quadrilaterals](#)
- [Perimeter and Area](#)
- [Circles](#)

### Volume of Geometric Solids

- [Solids](#)



## Unit 8: Concepts in Statistics

### Statistical Graphs and Tables

- [Graphing Data](#)
- [Other Types of Graphs](#)

### Measures of Center

- [Measures of Center](#)

### Graphical Representations

- [Use and Misuse of Graphical Representations](#)

### Probability

- [Probability](#)



## Unit 9: Real Numbers

### Introduction to Real Numbers

- [Variables and Expressions](#)
- [Integers](#)
- [Rational Real Numbers](#)

### Operations With Real Numbers

- [Adding Integers](#)
- [Adding Real Numbers](#)
- [Subtracting Real Numbers](#)
- [Multiplying and Dividing Real Numbers](#)

## Properties of Real Numbers

- [Associative, Commutative, and Distributive Properties](#)

## Simplifying Expressions

- [Order of Operations](#)



## Unit 10: Solving Equations and Inequalities

### Solving Equations

- [Solving One-Step Equations Using Properties of Equality](#)
- [Solving Multi-Step Equations](#)
- [Special Cases and Applications](#)
- [Formulas](#)

### Solving Inequalities

- [Solving One-Step Inequalities](#)
- [Multi-Step Inequalities](#)

### Compound Inequalities and Absolute Value

- [Compound Inequalities](#)
- [Equations and Inequalities and Absolute Value](#)



## Unit 11: Exponents and Polynomials

### Integer Exponents

- [Exponential Notation](#)
- [Simplify by Using the Product, Quotient, and Power Rules](#)
- [Products and Quotients Raised to Powers](#)
- [Scientific Notation](#)

### Polynomials With Single Variables

- [Introduction to Single Variable Polynomials](#)
- [Adding and Subtracting Polynomials](#)
- [Multiplying Polynomials](#)
- [Multiplying Special Cases](#)
- [Dividing by a Monomial](#)
- [Dividing by Binomials and Polynomials](#)

### Polynomials With Several Variables

- [Simplifying and Evaluating Polynomials With More Than One Term](#)
- [Operations With Polynomials](#)



## Unit 12: Factoring

### Introduction to Factoring

- [Greatest Common Factor](#)

### Factoring Polynomials

- [Factoring Trinomials](#)
- [Factoring: Special Cases](#)
- [Special Cases: Cubes](#)

### Solving Quadratic Equations

- [Solve Quadratic Equations by Factoring](#)

*continued...*



## Unit 13: Graphing

### Graphs and Applications

- [The Coordinate Plane](#)
- [Graphing Linear Equations](#)
- Slope and Writing the Equation of a Line**
- Finding the Slope of a Line
- Writing the Equation of a Line
- Parallel and Perpendicular Lines
- Graphing Linear Inequalities



## Unit 15: Rational Expressions

### Operations With Rational Expressions

- [Introduction to Rational Expressions](#)
- [Multiplying and Dividing Rational Expressions](#)
- [Adding and Subtracting Rational Expressions](#)
- Complex Rational Expressions

### Rational Equations

- Solving Rational Equations and Applications

### Formulas and Variation

- Rational Formulas and Variation



## Unit 16: Radical Expressions and Quadratic Equations

### Introduction to Roots and Rational Exponents

- Roots
- Squares, Cubes, and Beyond
- Rational Exponents

### Operations With Radicals

- Multiplying and Dividing Radical Expressions
- Adding and Subtracting Radicals
- Multiplication of Multiple Term Radicals
- Rationalizing Denominators

### Radical Equations

- Solving Radical Equations

### Complex Numbers

- Complex Numbers
- Operations With Complex Numbers

### Solving Quadratic Equations

- Square Roots and Completing the Square
- The Quadratic Formula



## Unit 17: Functions

### Introduction to Functions

- Identifying Functions

### Using Functions

- Evaluating Functions
- Graphing Types of Functions
- Finding Domain and Range

### Operations With Functions

- Arithmetic Operations With Functions



## Unit 18: Exponential and Logarithmic Functions

### Exponential Functions

- Introduction to Exponential Functions