Student Goals for Arithmetic Masters

Module 1 : Numbers & Operators

Student can Identify:
- Integers, primes, composites, and real numbers
- Operations: addition, subtraction, multiplication, and division

Student can Explain:
- The definitions of operations
- The number sets, prime numbers, and composite numbers

Student can Calculate:
- Expressions using the order of operations
- Short and long division problems

Module 2 : Number Sense

Student can Identify:
- Factors, multiples, and the identities
- Expressions and the properties of arithmetic

Student can Explain:
- The similarities between two composite numbers by using their factors
- The properties we use to simplify expressions

Student can Calculate:
- LCM and GCF

Module 3 : Fractions

Student can Identify:

- fractions, mixed numbers, and rates

Student can Explain:

- How fractions need a common denominator for addition or subtraction
- How to convert from an improper fraction to a mixed number and back
- The relationship that exists between distance, rate, and time and how it manifests itself.

Student can Calculate:

- The results of adding, multiplying, and simplifying fractions
- Solve problems involving rates

Module 4 : Decimals

Student can Identify:

- Decimals and the place values in the decimal system
- Percents as fractions, percents, and decimals

Student can Explain:

- How to round decimals
- How the base-10 number system works

Student can Calculate:

- Basic percent values
- Add and multiply decimal values

Module 5 : Geometry

Student can Identify:

- Lines, rays, angles, circles, triangles, and quadrilaterals

Student can Explain:

- The similarities between different quadrilaterals
- The differences between the perimeter and area of shapes and how to use them in basic problem solving

Student can Calculate:

- The perimeter and area of circles, triangles, and quadrilaterals