

Academic Consolidation Course Outline School Year 2025-2026

Chapter 1: Number Theory:

- Place Value
- Rounding
- Expanded form
- Prime/composite numbers
- Prime factorization
- LCM/GCF
- The four operations: identifying which operations to perform in a word problem
- Order of Operations
- Exponents
- Square roots

Chapter 2: Integers

- Compares integers using $<$ or $>$
- Locates integers on a number line
- Orders integers
- Operations on integers using integer tiles (addition, subtraction, multiplication, division)
- Cartesian Plane (with integers)
- Mean and Range

Chapter 3: Fractions

- Identifies different meanings of fractions: part of a whole; division; operator; measurement
- Creates and recognizes visual representations of fractions
- Locates fractions on a number line
- Compares and orders fractions
- Proper, improper fractions and mixed numbers
- Equivalent fractions
- Simplifies fractions
- Operations on fractions
- Adding and subtracting
- Multiplying fractions
- Dividing fractions

Chapter 4: Relationship between Fraction, Decimal, and Percent

- Converts between fractions, decimals, and percent
- Understands percent
- Calculates percent of a number
- Applications of percent, such as taxes and discounts

Chapter 5: Perimeter and Area

- Converts units of lengths
- Perimeter and Area of the following shapes:
 - Square
 - Rectangle
 - Triangle
 - Parallelogram
 - Rhombus
 - Trapezoid
 - Composite shapes