

# **Math Syllabus**

## **Room 400/Room 500/CTSS Program**

Special Education utilizes TransMath curriculum for daily mathematics instruction at individual student's skill level. Math placement is based on students' skill levels, not grade levels. Students may be placed into one of the following TransMath curriculum:

- **Developing Number Sense:** For students showing the need for foundational number sense skills.
- **Making Sense of Rational Numbers:** For students showing proficiency in basic number sense skills but lacking the foundational skills for rational numbers.
- **Understanding Algebraic Expressions:** For students showing proficiency with rational numbers but lacking the foundational skills for pre-Algebra.

TransMath is a comprehensive mathematics intervention that provides key foundational skill-building and problem-solving experiences by targeting instruction with fewer topics, taught in greater depth.

TransMath curriculum establishes a strong mathematics foundation with the building number concepts strand, which encompasses:

- Whole number computation
- Factors, primes, and composites
- Rational number computation
- Comparison of fractions, decimal numbers, and percents
- Exponents and integers
- Variables and algebraic equations
- Inequalities and functions

### **Consistent, Daily Routine:**

Students will receive small group instruction daily at their skill level which will include skills maintenance review, building number concepts lesson, problem solving, and a homework assignment that students will complete during the math period, with assistance and re-teaching from staff, as needed. If time allows, students will utilize the computer lab for Interactive Reinforcement Exercises to supplement mathematic concepts.

### **Supplies:**

Students will need to bring pencils and paper. Calculators will be provided.

### **Homework:**

Work is assigned during the class which students are responsible for completing. If students have not completed assignment within the given time, the student is responsible for completing and returning the assignment the next day.

### **Attendance:**

Attendance is important so that the student does not miss key concept instruction.

### **Grading:**

Percentage grades are based on completed tasks.

**TransMath Developing Number Sense** \* key concepts: (Green Textbook)

- Place Value (September)
- Whole Numbers (October)
- Operations (November)
- Factors (December)
- Multiples (January)
- Estimation (February )
- Fractions (March)
- Multistep Problems (April )
- Mean, Median, Range (May)
- Measurement (May – June)

**TransMath Making Sense of Rational Numbers** \* key concepts: (Blue Textbook)

- Fractions (September)
- Decimal Numbers (October)
- Percentages (November)
- Exponents (December)
- Negative Numbers (January)
- Estimation (February)
- Data and Statistics (March)
- Two-Dimensional Geometry (April)
- Probability (May – June)

**TransMath Understanding Algebraic Expressions** \* key concepts: (Yellow Book)

- Properties (September)
- Simple Algebraic Expressions (October)
- Inequalities (November)
- Functions (December)
- Square Roots (January)
- Irrational Numbers (February)
- Estimation (March)
- Ratio and Proportion (April)
- Coordinate Graphs (May)
- Slope (May – June)
- Three-Dimensional Geometry (June)

**\*Subject to change based on individual student's skill/ability level and pacing flexibility to allow for re-teaching of key concepts, as needed.**

**\*Students will focus on test taking strategies throughout the year and practicing for MCA tests using MCA sample practice tests. This will assist in lessening test anxiety.**