Math Foundational Skills

* Number Sense: Understanding the properties and relationships of numbers. This includes concepts such as counting, comparing quantities, understanding place value, and recognizing number patterns.
* Basic Operations: Mastery of addition, subtraction, multiplication, and division. Students should understand the meanings of these operations and be able to apply them in various contexts.
* Number Operations Fluency: Being able to perform arithmetic calculations mentally quickly and accurately and/or with written methods.
* Fractions, Decimals, and Percentages: Understanding the relationship between these different forms of numbers and being able to perform operations involving fractions, decimals, and percentages.
* Measurement: Understanding units of measurement, converting between different units, and applying measurement concepts to solve problems involving length, area, volume, weight, time, and temperature.
* Geometry: Recognizing and understanding basic geometric shapes, angles, lines, and their properties. This includes concepts such as symmetry, congruence, and transformations.
* Patterns and Algebraic Thinking: Recognizing, extending, and creating patterns; understanding basic algebraic concepts such as variables, expressions, and equations.
* Data Analysis and Probability: Collecting, organizing, and interpreting data; understanding basic concepts of probability and making predictions based on data.
* Problem-Solving Skills: Applying mathematical concepts and strategies to solve a variety of problems in real-world contexts. This includes understanding and using problem-solving strategies such as drawing diagrams, making models, and breaking problems into smaller steps.
* Mathematical Reasoning and Logic: Developing logical reasoning skills and being able to explain mathematical ideas and solutions clearly and coherently.