The B.E.S.T. Standards for Mathematics are mathematics standards for Florida students that are a high-quality foundation to which our assessments and instructional materials will be aligned. The B.E.S.T Standards were created by Florida educational leaders and Mathematics teachers reflecting the feedback of parents, stakeholders and classroom teachers. The benchmarks for the standards are mastery goals that students are expected to attain by the end of the school year.

Florida B.E.S.T. Strands: Third Grade

- Number Sense and Operations
- Fractions
- Algebraic Reasoning
- Measurement
- Geometric Reasoning
- Data Analysis and Probability

Instructional time will focus on:

- ✓ **Multiplying and dividing multi-digit numbers and using a standard algorithm**
- ✓ **Adding, subtracting, multiplying and dividing fractions and decimals**
- ✓ **Developing an understanding of the coordinate plane**
- ✓ **Extending geometric reasoning to include volume**
- ✓ **Extending understanding of data to include the mean**

Fifth Grade Standards at a Glance

- Place value of multi-digit numbers
- Compare numbers up to 1,000,000
- Operations with multi-digit numbers including decimals
- Understand the relationship between fractions and decimals
- Add, subtract and multiply fractions
- Solve problems with a whole number and fractions using the four operations
- Analyze relationships between inputs and outputs
- Convert measurement units
- Volume of right rectangular prisms
- Find mean, mode, median, and range of a data set
- Perimeter and area of rectangles
- Plot points and represent problems on the coordinate plane

Mathematical Thinking and Reasoning (MTR) Standards

Florida students are expected to engage with math through the MTR Standards daily to promote deeper learning and understanding.

1. Actively participate
2. Represent problems in multiple ways
3. Complete tasks with fluency
4. Engage in discussions
5. Use patterns to connect concepts
6. Assess reasonableness of solutions
7. Apply math to the real world

Mathematical Activities to Support Learning at Home

- ✓ **Board Games:** Games can develop more complex ways of reasoning. Great options are Checkers, Clue, Dominos, Chess and Mancala.
- ✓ **Word Problem Creator:** Create and solve two step word problems based on real life situations. (For example: Johnny drove 238 miles to an amusement park. Sarah drove 52 miles more than Johnny. Andrea drove 87 miles less than Sarah. How many miles did Andrea drive to the amusement park?)
- ✓ **Measure your Home:** Determine the area and perimeter of windows in the home. Illustrate and label findings to determine if any windows have the same perimeter and different areas or the same area and different perimeters.
- ✓ **Place Value Dice:** Roll 3 dice, create a 3-digit number and write it down. Repeat these steps. Add, subtract, multiply or divide the two number you made!
- ✓ **Coordinates**: the classic game Battleship is a great way to practice the idea of a coordinate plane at home!

Fifth Grade Mathematics Picture Books

Spaghetti and Meatballs for All by Marilyn Burns (Multiplication)

On Beyond a Million: An Amazing Math Journey by David Schwartz (Number Sense)

Sam's Sneaker Squares by Nay Gabriel (Area)

A Remainder of One by Elinor Pinczes (Division)

Full House by Dayle Dodds (Fractions)

The Fly on the Ceiling by Julie Glass (Coordinates)

The Math Curse by Jon Scieszka (Problem Solving)

Academic Mathematics Vocabulary

Automaticity: the ability to act according to an automatic response or pattern which is easily retrieved from long term memory

Exploration: instruction focuses on helping the student develop understanding through the use of manipulatives, visual models, discussions, estimation, and drawings

Procedural Fluency: instruction focuses on helping the student become fluent, efficient and accurate with a procedure

Procedural Reliability: instruction focuses on helping the student choose a method they can use reliably