

Family Guide for Student SUCCESS

1st Grade MATH



AMSTI

Alabama Math, Science,
and Technology Initiative

FAMILIES + SCHOOLS = STUDENT SUCCESS

Parents and family are a child's first teachers in life and have valuable insights into the needs, strengths, and interests of their child. The collaboration of caregivers and educators is vital in guiding each child toward success. The Family Guide for Student Success outlines what your child should learn in 1st grade. You can encourage your child's academic growth by reinforcing classroom activities at home. The Family Guide for Student Success outlines the critical content that all students should know and be able to do at the end of 1st Grade. The achievement of the expectations will help your child meet the assessment standards established by our state. It is only through your support and active participation in your child's education that we form a partnership for success for all the children in Alabama.

WHY ARE STANDARDS IMPORTANT?

- They help ensure that all students, no matter where they live, are prepared for success in college and the workforce.
- Standards provide a clear roadmap of learning for teachers, parents, and students.
- Having clearly defined goals helps families and teachers work together to ensure that students succeed.
- They also will help your child develop critical thinking skills that will prepare him or her for college and career.

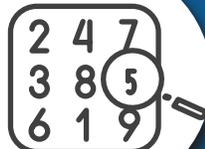
1ST GRADE CONTENT PRIORITIES

This guide provides an overview of what your child will learn by the end of 1st Grade in mathematics. If your child is meeting the expectations outlined in these standards, he or she will be well prepared for 2nd grade. In 1st grade, instructional time should focus on four essential areas, all of which have equal importance:



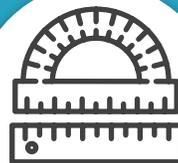
ADD & SUBTRACT

Your child can add & subtract amounts within 20 using objects, drawings, & equations.



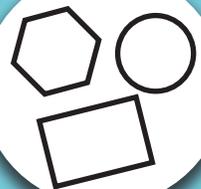
COUNTING & PLACE VALUE

Your child can count a group of objects and organize into tens and leftover ones.



MEASUREMENT

Your child can measure & compare the lengths of two objects as well as tell time to the hour & half hour.



SHAPES

Your child can name, build, take apart, draw, describe, & identify 2 dimensional and 3 dimensional shapes.

MATH @ HOME

Have you ever heard this phrase from your child before about math, "When will I ever use this?" The more they can make a connection between math & the real world, the more they will value it. Below you will find a few ideas to showcase how your child can relate the 1st grade math concepts he/she is learning at school and apply them at home in everyday situations.

Add & Subtract

- Play GO FISH but search for ways to make 10, like 6 & 4 or 3 & 7, instead of finding matches.
- Roll dice (or draw cards) and add to find the sum, or compare to find the difference.
- Take advantage of opportune moments to illustrate math, like asking your child, "How many forks do we still need on the table? How many tacos are left if I had ten, but ate six? How many dollars do I need for this \$20 video game if I've saved \$5?"

Counting & Place Value

- Count and organize everything such as buttons, beans, toys, or shoes! Ask them to count from 0 - 120, forwards & backwards by ones & tens.
- Organize your items into groups or rows of ten. Ask your child, "What is the total? How many 10s are there? Do we have any leftovers that did not make a 10? What is 10 more or 10 less than what we have? Can you draw/represent it & write the number that matches?"
- Count pennies by ones, and count dimes by tens.

Measurement

- Compare two pencils. Which is longer? Which is shorter?
- Measure length using everyday objects end to end with no overlaps or gaps. For example: "How many crayons long is this book?" or "How many paper clips does it take to measure this piece of paper?"
- Use digital and analog (wall) clocks to tell time to the hour (3:00) and half-hour (3:30).

Shapes

- You can play "I SPY..." with rectangles (dollar bills), squares (windows), trapezoids (a plane's wings), half-circles/ quarter-circles (leftover pizza), cubes (dice), rectangular prisms (shoeboxes), cones (party hats), cylinders (can of beans).
- Divide a sandwich into halves (2 equal parts) and fourths (4 equal parts). Combine shapes to create new ones.

WHAT IS AMSTI?

The Alabama Math, Science, and Technology Initiative, commonly referred to as AMSTI, is the Alabama Department of Education's initiative to improve STEM teaching & learning statewide. Its mission is to support Alabama educators and students in learning STEM by doing STEM. Check us out by scanning the QR Code.



“Never associate math with speed. Forcing kids to work fast is the best way to create math anxiety in children.”

HOMEWORK HELP



AMSTI

Quick links for Family Resources to do math at home.

www.amsti.org/k2-math-student-family



GFletchy

Graham Fletcher's progression videos showing math in action.

www.gfletchy.com/progression-videos/



Education Galaxy

Master content and level up on this fun learning game with grade level content.

www.educationgalaxy.com



Braining Camp

The most popular manipulatives at your fingertips.

www.brainingcamp.com



Math Playground

Math games, searchable by grade level and skill.

www.mathplayground.com