Family Guide for Student SUCCESS

Kindergarten 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 Kindergarten. 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 Kindergarten. 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.

KINDERGARTEN CONTENT PRIORITIES

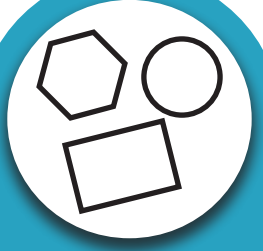
This guide provides an overview of what your child will learn by the end of Kindergarten in mathematics. If your child is meeting the expectations outlined in these standards, he or she will be well prepared for 1st grade. In Kindergarten, instructional time should focus on four essential areas, all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

COUNTING

Your child can count and connect numbers with quantities.

ADD & SUBTRACT

Your child will make connections between objects and pictures to use with addition and subtraction in problem-solving.



SHAPES

Your child will recognize and compare two-dimensional and three-diminsional shapes.

MEASUREMENT

Your child will build their mathematical vocabulary like more, less, long, wide, length, weight, above, below, etc.

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 Kindergarten math concepts he/she is learning at school and apply them at home in everyday situations.

Counting

- Have your child count out loud to 100.
- Count while touching and moving an everyday item like balls from 1 - 20.
- Skip count by 10s to 100 using dry beans.
- Play counting games with your child like Candyland, Chutes & Ladders, & Hi Ho Cherry-O.

Add & Subtract

- Have your child add and subtract goldfish crackers within 5.
- Start with 3 pieces and ask them, "How many more do I need to make 5?" Then start with 5 pieces and ask, "How many will be left if you eat 4 of them?" Continue by changing the starting amount and how many are being added and taken away within 5.
- Have your child add and subtract pieces of candy within 10.
- Start with 6 pieces and ask them, "How many more do I need to make 10?" Then start with 10 pieces and ask, "How many will be left if you eat 3 of them?" Continue by changing the starting amount and how many are being added and taken away within 10.

Shapes

- Go on a shape walk in your home or outside. Ask your child to identify the shapes they see around them.
- When you are putting up groceries, ask your child, "What shape is this?"
- You can play "I SPY..." and use shapes to determine what you are looking at.

Measurement

- Starting with a pile of ten or fewer toys or legos, have your child sort them by similarities and differences among them and then count the number of toys or legos in each set.
- Have your child measure objects, like a book, with paper clips or other items and get them to use vocabulary such as taller, longer, shorter, heavier and lighter.

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

Khan Academy

Instructional Math Videos with Interactive Guided Practice

www.khanacademy.com

DREME

Family card games that support early math skills.

www.dreme.stanford.edu/news/10-family-card-games-support-early-math-skills

GFletchy

Graham Fletcher's progession videos showing math in action.

www.gfletchy.com/progression-videos/

PBS Learning Media

Direct access to videos and interactive mathematics

www.pbslearningmedia.org/subjects/mathematics