

Family Guide for Student SUCCESS

5th Grade MATH



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 5th 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 5th 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.

5TH GRADE CONTENT PRIORITIES

This guide provides an overview of what your child will learn by the end of 5th grade in mathematics. If your child is meeting the expectations outlined in these standards, he or she will be well prepared for 6th grade. In Grade 5, instructional time should focus on three essential areas, all of which have equal importance:



MULTIPLICATION & DIVISION

Your child can extend their work to include real world problems and decimal numbers.



FRACTIONS

Your child can build on their knowledge of operations to work with fractions while using models to support their understanding.



VOLUME

Your child can recognize volume as an attribute of three-dimensional space and use units to fill a 3D solid.

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 5th grade math concepts he/she is learning at school and apply them at home in everyday situations.

Multiplication & Division

- Ask your child to give you estimated solutions. For example, can they give an estimate of five items on a grocery list or determine the estimated cost of four plants.
- Support your child while learning division with larger numbers. If you have 750 minutes on your phone each week and you use 100 minutes a day, will you have enough minutes for the week? What if you have 12,500 minutes for a month? Can you use 100 minutes a day and have enough minutes for the whole month?

Fractions

- Have students make models to find equivalent fractions when working with unlike denominators (differently-sized pieces). For example, fill one measuring cup with $\frac{2}{3}$ of a cup with water and give your child another measuring cup with $\frac{3}{4}$ cups of water. Then ask, “How much water do we have in all?”
- Bake a cake or brownies. Have your child find $\frac{3}{4}$ of the pan. After some have been eaten, ask them, “Can you determine the fraction that is left?” Are there other ways we can name the fraction?”

Volume

- Your child can measure objects with 3 dimensions around your home to determine and compare their volumes. Focus on the fact that volume is filling an object, area is covering a space, and length is how long something is.
- Use cubes, wooden blocks, or legos to build solid 3-D figures and determine the volume. Put two of the figures together to make an irregular shape. Determine the volume by adding the two volumes together. Then let your child count the units to verify the volume.

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.



“Education is the foundation upon which we build our future.”
-Christine Gregoire

HOMEWORK HELP



AMSTI

Quick links for Family Resources to do math at home

www.amsti.org/35-math-student-family



Khan Academy

Instructional Math Videos with Interactive Guided Practice

www.khanacademy.com



Math Help!

Instructional Math Videos with Interactive Guided Practice & Self Assessment

www.mathhelp.com



WolframAlpha

A unique engine for providing mathematical knowledge & generate reports

www.wolframalpha.com



PBS Learning Media

Direct access to videos and interactive mathematics

www.pbslearningmedia.org/subjects/mathematics