

RICHLAND SCHOOL DISTRICT TWO

7th Grade Math

Parent & Family Resource Guide

In 7th grade, your child will deepen their understanding of proportional relationships, work with all rational numbers (including negatives), and explore geometry and probability. Here is how you can support their learning at home.

Understanding Productive Struggle

You may notice your child working hard on a math problem and feeling frustrated. This is called productive struggle - and it is actually a GOOD thing! Here is why:

What It Looks Like	Why It Matters
• Your child pauses and thinks before answering • They try different approaches • They make mistakes and learn from them • They ask questions and wonder why • They may feel frustrated but keep trying	• Builds stronger math understanding • Develops problem-solving skills for life • Creates confidence through perseverance • Helps learning stick in long-term memory • Prepares them for real-world challenges

How You Can Help During Productive Struggle

- Resist the urge to give the answer - instead ask: What do you know? What are you trying to find?
- Say: It is okay to be stuck. Let us think about this together.
- Encourage them: Making mistakes means your brain is growing!
- Ask: Can you draw a picture or use objects to help you see the problem?
- Remind them: You do not have to solve it quickly. Understanding matters more than speed.

What Your Child Is Learning This Year

The new South Carolina math standards focus on deep understanding, not just memorizing steps. Here are the main topics:

Proportional Relationships

Real-World Connections: Unit prices, map scales, recipe conversions, tip calculations

Operations with Rational Numbers

Real-World Connections: Temperature changes, bank accounts (deposits/withdrawals), elevations

Expressions and Equations

Real-World Connections: Comparing phone plans, calculating costs with discounts, solving everyday problems

Geometry (Angles, Area, Volume)

Real-World Connections: Construction, packaging, understanding shapes in the real world

Probability and Statistics

Real-World Connections: Games of chance, weather predictions, making informed decisions

Powerful Questions to Ask (Without Giving the Answer)

When They Are Stuck	When They Think They Are Done
• What do you already know about this problem? • What are you trying to find out? • Can you draw a picture or diagram? • Have you seen a problem like this before? • What would be a good first step? • Can you explain the problem in your own words?	• How do you know your answer makes sense? • Can you check your work another way? • Can you explain how you got that? • What if the numbers were different? • Is there another way to solve this? • What was the trickiest part?

Instead of This... Try This!

- Instead of: "That is wrong" ... Try: "Tell me how you got that answer"
- Instead of: "Let me show you" ... Try: "What have you tried so far?"
- Instead of: "Just memorize it" ... Try: "Why do you think that rule works?"
- Instead of: "Hurry up" ... Try: "Take your time to think it through"
- Instead of: "I was never good at math" ... Try: "Math can be challenging, but we can figure it out"

Free Online Resources

These resources are available to support your child at home:

Resource	What It Offers
Zearn	Free access through our district! Interactive lessons that match what your child learns in class. Students can work at their own pace with video support. (Access through classlink)
Math Nation	Our classroom curriculum with video tutorials from Study Expert tutors, practice problems, and family resources for each unit.
Khan Academy	Free video lessons and practice for every math topic. Great for extra help or reviewing concepts. Available in Spanish!
Desmos	Free online graphing calculator and interactive math activities. Helps students visualize math concepts.

Remember: You Are Your Child's First Teacher!

- Your positive attitude about math matters more than your math skills
- Celebrate effort and persistence, not just correct answers
- Make math part of everyday life - cooking, shopping, sports, games
- It is okay to say "I do not know - let us figure it out together!"
- Contact your child's teacher anytime you have questions