

MATHEMATICS

TEACHER RESOURCE GUIDE



[Kentucky Academic Standards \(KAS\) for Mathematics:](#)

Begin here! Beyond the standards themselves, you will also find helpful clarifications and examples to further support your understanding of what your students need to know and be able to do at each grade or course level. Click on the interactive coherence feature to see how learning connects to prior knowledge and skills while also building the foundation for what comes next. Deepen your understanding of how mathematical concepts develop across the standards to cultivate confident problem solvers at every age.



[KY Standards - Mathematics Resources:](#)

This website is your home for high-quality, evidence based mathematics learning. Explore modules and resources that strengthen mathematics instruction across Kentucky. Access the guidance and tools you need to teach with clarity and confidence.



[KY Learning Hub:](#)

The KYLearningHub puts high-quality professional learning at your fingertips. Access asynchronous courses, build your expertise on your schedule and bring stronger mathematics instruction to every student. Check back often as new courses and resources are added throughout the year.



[Intellectual Preparation:](#)

Leverage the power of your High-Quality Instructional Resources (HQIRs) to “work smarter, not harder.” Use these tools to better understand each task, the mathematics students are developing and the built-in supports, so you can plan with purpose and respond effectively to student thinking. Instead of “lesson planning,” reallocate your time for meaningful lesson rehearsal and student work analysis to strengthen your instruction and improve student outcomes.



[Numeracy Counts:](#)

Advance your math instruction with targeted supports to develop fluency, strengthen reasoning and deliver high-quality learning experiences for every student.



[Course Codes:](#)

Your guide to which mathematics courses align to the standards and graduation requirements. See exactly what each course covers and how it fits into your students' pathways.



[Standards Family Guides:](#)

These guides help families understand what mathematics looks like at their child's grade level which may look quite different from the way they learned! Each guide offers family-friendly tips to empower families in actively supporting their students' problem solving and fluency development. Sharing these resources strengthens the home-school partnership and extends learning beyond the classroom.