

SCIENCE

TEACHER RESOURCE GUIDE



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

Your blueprint for empowering students to make sense of the world around them. Explore how the *KAS for Science* integrates science and engineering practices, disciplinary core ideas and crosscutting concepts to support engaging, three-dimensional learning experiences. Dive into the standards to identify what students should know and be able to do at each grade level to demonstrate mastery.



[KY Standards - Science Resources:](#)

This website is your home for high quality, evidence-based science learning. Explore tools, modules and resources that strengthen three-dimensional science teaching and learning across Kentucky. Access guidance and instructional supports that help you teach with clarity, confidence and purpose.



[KY Learning Hub:](#)

The KY Learning Hub puts high quality professional learning at your fingertips. Access flexible courses and resources that deepen your understanding of the *KAS for Science*, support impactful classroom practice and help you grow as a leader in science education.



[Intellectual Preparation:](#)

Plan with purpose. These science intellectual preparation tools help unpack High-Quality Instructional Resources (HQIRs) by internalizing units and lessons to understand how bundled standards create coherent learning experiences. Deepen instructional decision-making through understanding the purpose behind routines, strategies and learning experiences that support student sense making and scientific thinking. Collaboratively rehearse lessons and analyze student work to strengthen teaching and learning.



[Course Codes:](#)

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



[Standards Family Guides:](#)

Share these guides to help families connect to the science learning happening in your classroom. These guides provide family friendly explanations, questions and activities that support curiosity, problem solving and scientific thinking at home.

