

REL Corner: Implementing Quality Instruction

[Learn about the REL Appalachia and its work](#), and dive into these resources from across the REL program on implementing quality instruction.

- [Instructional improvement cycle: A teacher’s toolkit for collecting and analyzing data on instructional strategies](#). This REL Central toolkit provides teachers with guidance on how to deliberately apply and study one classroom strategy over the course of one unit and systematically document and compare results to consider the effects of a given instructional strategy on student learning.
- [Mathematics Instruction with an Equity Lens](#). This REL Appalachia blog post provides mathematics educators with questions they can regularly reflect on to consider whether students of differing abilities, cultures, communities, languages, and socioeconomic statuses are accessing quality mathematics instruction.
- [Instructional Strategies for Teaching Writing to Elementary Students](#). This REL Southeast infographic provides six evidence-based instructional strategies for teaching writing to elementary students. Strategies include modeling, scaffolding instruction, and implementing writing centers for planning, writing and revising.
- [What does the research say about project-based learning \(PBL\) and performance tasks for improving and assessing student learning in secondary school English language arts \(ELA\) and social studies classes?](#) This Ask A REL response from REL Appalachia shares research reports and descriptive articles on implementing and improving instructional practices centered on performance tasks and project-based learning, which employ student-centered instruction and collaborative learning experiences.
- [Measuring culturally responsive instruction in middle school math](#). This Ask A REL response from REL West shares research reports and descriptive study articles on models for developing culturally responsive teaching in mathematics through practices such as supportive teacher-student relationships and the Culturally Responsive Instruction Observation Protocol (CRIOP).
- [Effective Literacy and English Language Instruction for English Learners in the Elementary Grades](#). This IES practice guide provides five recommendations for educators to implement effective literacy and English language instruction for English learners. Recommendations include providing intensive small-group reading interventions and scheduling regular peer-assisted learning opportunities.
- Strategies to Assist Elementary and Middle School Students Struggling with Math:
 - [Using Tables, Charts or Lists to Find a Pattern](#). This REL Southeast infographic provides strategies elementary and middle school teachers can use to help students visually identify patterns in math problems.
 - [Using Visual Representations](#). This REL Southeast infographic provides examples of visual representations elementary and middle school teachers can use to help scaffold

learning for students. Examples of visual representations include pictorial representations, number lines, and strip diagrams.

- [What are some research-based practices for closing racial, socioeconomic, and disability-based achievement gaps in science for elementary, middle, and high school students?](#) This Ask A REL response from REL Appalachia shares research reports and practice guides that highlight recommendations for promoting underrepresented students' success in math and science through strategies such as inquiry-based instruction.