School division partners want to ensure all students have equitable access to and success in advanced mathematics courses, including Algebra I, in middle school. We conducted research to describe the current status of access and success in advanced mathematics courses in grades 7–9. We then designed a template for district staff to replicate the analyses regularly with their own local data. We also provided training and coaching to local leaders, supporting them to develop professional learning models to improve mathematics teaching. This infographic, on how to embed research-based practices into professional learning for mathematics educators, shares resources derived from that coaching.

REL Appalachia builds capacity by:

- **Conducting research** that addresses high-priority needs and examines what is working in schools and institutions of higher education.
- **Providing training, coaching, and technical support** for use of data and evidence-based practices.
- **Sharing important findings** with educators and leaders in a timely, accessible, and actionable manner.

**Examples of how REL Appalachia has supported partners in the region:**

**Rural educators need evidence-based practices to strengthen students’ successful postsecondary transitions.** After finding few examples of practices that had been rigorously evaluated in rural settings, we designed and delivered a three-part training on promising practices. We then supported partners to use a continuous improvement approach to systematically implement these practices. To address the root problem, we joined with rural education leaders and researchers to host a webinar for policymakers and funders to encourage the engagement of rural communities in rigorous research, with the goal of building the knowledge base for everyone.

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REL Appalachia is one of 10 RELs funded by the Institute of Education Sciences, the independent, non-partisan, statistics, research, and evaluation arm of the U.S. Department of Education.

Read more examples of REL Appalachia’s support in action.
How can REL Appalachia support your local or state educational needs?

The REL Appalachia team brings content and methodological expertise across a range of critical education topics and needs to co-design and co-implement partnership activities. We are currently focusing on the following activities:

Engage with us!

REL Appalachia is deeply committed to supporting educators in our region. Connect with us to explore partnership or stay informed about our work.

Learn more about REL Appalachia and find additional resources: [https://ies.ed.gov/ncee/rel/region/appalachia](https://ies.ed.gov/ncee/rel/region/appalachia)