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Permission is requested for the Township of Union Public Schools to provide professional development for all K-5 teachers using the i-Ready Classroom and i-Ready Math Core: Developing Mathematical Thinkers through Instructional Routines Session through the Curriculum Associates to be held throughout the 2022-2023 school year. Total cost not to exceed \$12,500 and paid for through Title II funds with account extension 8434.

Developing Mathematical Thinkers through Instructional Routines

In *Developing Mathematical Thinkers through Instructional Routines*, educators examine how to use *i-Ready Classroom Mathematics'* Try–Discuss–Connect routine to support productive student discourse. Within each step of the routine, educators reflect on students' opportunities to engage with mathematical practices, including making sense of and solving a task, discussing various strategies, and connecting between representations. Educators plan for the routine within the context of a day of instruction, focusing on effective ways to facilitate student-led discourse that leads to shared understanding of mathematical concepts.

Outcomes

- Draw connections between the Try–Discuss–Connect routine and mathematical practices.
- Use the routine as a vehicle for developing conceptual understanding through shared student thinking, productive struggle, and authentic discourse.

NCTM Effective Teaching Practice Connection

Our courses support the understanding and implementation of all the NCTM Effective Teaching Practices. This course emphasizes these Teaching Practices:

- Implement tasks that promote reasoning and problem solving.
- Use and connect mathematical representations.
- Facilitate meaningful mathematical discourse.
- Pose purposeful questions.

Format

The recommended length for these centrally delivered courses is three hours—with each course needing a minimum scheduled time of at least two hours—but we work within the flexibility of up to six hours to meet your needs. Computer and web access are strongly recommended. These sessions may be delivered virtually or in person.

Audience

- Teachers and instructional coaches
- Leaders are also encouraged to attend.