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**Lessons learned from a math teachers' circle.**

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Summary: In this chapter, we describe our experience running the Northern Colorado Math Teachers' Circle (NoCOMTC), founded in 2011. The goal of the NoCOMTC is to improve middle school mathematics teachers' mathematical and pedagogical content knowledge through interactive mathematical problem-solving professional development sessions. Our leadership team is an effective collaboration between university mathematics and mathematics education professors and middle and high school mathematics teachers. In this chapter, we describe our leadership team's journey from founding the NoCOMTC through four academic years of monthly evening mathematics teachers' circle sessions and three residential summer immersion workshops. We also discuss our recently initiated student circle program. We focus on aspects that were essential to forming and sustaining our program. In addition, we highlight lessons we have learned while planning and facilitating both mathematical problem-solving sessions and activities designed to help teachers' implementation of problem solving.

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