



**Northwest Educational
Service District 189**

Together We Can



Building Bridges Between Math and Science Program Goals and Objectives

Goal One: Improve and expand content and pedagogical knowledge of participating teachers in mathematics and science.

- Deepen middle and high school mathematics and science teachers' understanding of mathematics and science through discussion, self-assessment, reflection, and content immersion experiences.
- Support student understanding of math and science by increasing secondary mathematics and science teachers' ability to identify learning targets embedded in state standards, establish quality evidence of student understanding, and improve instructional practice.
- Build relationships and provide technological support systems that increase collaboration and deprivatization of practice between secondary mathematics and science teachers and scientists and mathematicians at WCC and WWU.
- Promote standards-based secondary mathematics and science and assist teachers in teaching and assessing key mathematics and science content through the use of the Understanding by Design unit planning process.
- Develop teacher capacity and district support systems to implement the use of the STAR Classroom Observation Protocol to reflect on and improve practice.
- Develop intentional, explicit student learning activities that capitalize on the natural bridges between mathematics and science content and create a deeper conceptual understanding of the relationships between key mathematical and scientific concepts.

Goal Two: To improve student achievement in mathematics and science among middle and high school students at participating schools.

- Increase students' ability to understand and apply mathematics and science concepts, solve problems using mathematics and science, and communicate effectively both within and across mathematics and science content areas.