

## ***University of Washington Bothell – Math 2.0: Teaching Math in a Technical World***

### **Project director:**

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### **Target audience:**

- 35 teachers and 13 principals in north central Washington. Of these, 10 teachers and 5 principals are from high-need districts.

### **Partners:**

- 3 high-need districts: Omak (5 teachers, 3 principals); Soap Lake (3 teachers, 1 principal); Warden (2 teachers, 1 principal)
- 10 other districts: Bridgeport (1 teacher, 1 principal); Brewster (1 teacher); Eastmont (8 teachers, 3 principals); Entiat (3 teachers, 1 principal); Nespelem (2 teachers, 1 principal); Okanogan (3 teachers, 1 principal); Orondo (1 teacher, 1 principal); Oroville (2 teachers); Quincy (3 teachers), Wilson Creek (1 teacher)
- Other partners:
  - Lead partner: University of Washington Bothell Education Program
  - Central Washington University Mathematics Department
  - North Central Educational Service District (NCESD)

### **Description:**

- This project focuses on increasing teacher effectiveness in algebra through professional development focused on integrating technology, pedagogy, and content while emphasizing student learning. It trains participants to use emerging technologies and mathematics software to engage students in the concept of the function, which is the foundation for algebraic thinking. It also expands principal/assistant principal skills for observing and supporting mathematical learning in inquiry-based, technology-rich mathematics classrooms.
- Professional development activities include summer institutes, academic year follow-up days, classroom observations, and on-line activities.

### **Project evaluation methods:**

- Teachers: content tests, focus interviews, surveys, online blog, wikis, classroom observations, lesson plans
- Principals: surveys, online materials
- Students: engagement in lessons observed during classroom observations

### **Significant direct collaboration or synergy with other projects or initiatives:**

- This project builds on NCESD's Mathematics Leadership Alliance (MLA) for teacher leaders in grades 3-10. It also coordinates efforts with NCESD's current Mathematics and Science Partnership (MSP) project.<sup>1</sup> Coordination is extremely close and includes joint learning activities to improve content knowledge of algebra, function concepts, data analysis, and mathematical modeling while examining pedagogical changes necessary to incorporate technological tools.

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<sup>1</sup> The MSP project is called "Progress to Math and Science Proficiency: Reaching Out to Rural Schools" and is funded by OSPI under Title II, Part B of the No Child Left Behind Act.