



Project Title: Turning Teacher-Candidates to Inquiry: Improving Preparation of Future K-12 Teachers in Mathematics and Science through Active Technology Engagement

Project Summary: The project's goal is to enhance the preparation of future K-12 teachers in the areas of mathematics and science through the active use of modern technologies, such as electronic response systems (clickers) and SMART Boards. As these technologies become ubiquitous in K-12 classrooms, it is important that the 500+ teacher-candidates in the UBC Teacher Education Program have experience using them both as learners and as future teachers. In our efforts to incorporate modern technologies into mathematics and science methodology courses, we have uncovered the scarcity of relevant research-based K-12 educational materials that integrate technology to promote inquiry-based teaching and learning. The project has created much needed opportunities for teacher-candidates to: (1) **design and evaluate educational materials** for teaching K-12 mathematics and science through the active use of modern technologies; (2) **discover and devise strategies** for integrating technology to promote **inquiry-based teaching**; (3) **become the next generation of leaders** in the area of technology-enhanced mathematics and science inquiry-based education.