

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

Project Summary (150 words) The project's goal is to enhance the preparation of future K-12 teachers in the areas of science and mathematics 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 UBC 600+ teacher-candidates have experience using them both as students and as future educators. However, in our efforts to incorporate modern technologies into mathematics and science methodology courses, we have uncovered the scarcity of relevant educational materials that integrate technology to promote inquiry-based learning. The project will create 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 education leaders** in the area of technology-enhanced science and mathematics inquiry-based teaching and learning.