

University of New Hampshire – Manchester

Teaching Everyone Algebra

July 1 2009 – June 30 2010

The goals and objectives of TEA are to increase teacher content knowledge in algebra, teaching methodology, and the NH Frameworks. Also, we hope to prepare these teachers to be future leaders in New Hampshire mathematics education and build a teacher network through professional development. While increasing their content knowledge about mathematics, the participants will learn about professional mathematics organizations that can help them to become better mathematics teacher leaders and colleagues. A major emphasis will be on using different methods to teach algebra concepts. The TEA participants will learn how to use a TI graphing calculator to visualize concepts. They will also learn how to use different manipulative such as, Algebra Tiles, a Smartboard, and Hands On Equations, to help students understand the algebra concepts and not just solve problems from memorized rules. Since all New Hampshire students must pass an algebra course to graduate from high school, we hope to give teachers different techniques to help their students understand and learn the concepts of algebra. We hope the course we create will help build teachers competence and confidence in the teaching of algebra. The course that will be taught will be aligned with the NH Frameworks and the GLE and will be taught with a focus on differentiation.