

Title: Guiding Principles for Advancing Students' Mathematical Ways of Thinking

Abstract: Most students, even those who desire to succeed in school, are intellectually aimless in mathematics classes because often they do not realize an intellectual need for what we intend to teach them. The notion of intellectual need is inextricably linked to the learner's understanding of how and why a particular piece of knowledge came to be. In this talk, I will discuss ways to put students' intellectual need at the center of the instructional effort, focusing mainly on standards for mathematical practice.