Main Issues

1. Becoming Highly Qualified
2. Teaching and Pedagogy
3. MCAS
4. Psychology and Learning
5. Developing Community
6. Professional Development & Innovation
1. Become Highly Qualified

Help passing the MTEL – what does that mean?
What are the core areas of mathematics to attend to?
What do they believe are the main content areas?

Aim: Can you report what you believe are the core mathematical concepts that are being developed?
2. Teaching and Pedagogy

New ways of instruction

New strategies

New ways of thinking

Help students to retain knowledge

Help get the message across clearly

Administrative support to keep track of where teachers are on their professional development track as they work through the institute and beyond.
3. **MCAS**

Meeting the needs of MCAS – understanding what it is assessing

Concentrate on important key areas

Comprehension of word problems – issues of language
4. *Psychology and Learning*

Problem-solving strategies. Are there effective ones?

Can we improve verification skills or checking methods?

**Aim:** Examine how are questions posed in class and what are their responses? How do teachers pose questions? How do students pose questions?

Improve student confidence – support mechanism to be able to do math without the teacher – e.g. tests/quizzes/assessment

Strategies to motivate students
5. Developing Community

Understand the needs of students for the future – preparing them for Middle (4-5). Preparing them for High School (7-8)

Draw common strands through the curriculum – see content themes from grade 4-8

Create communities of inquiry/practice in schools, across schools and with Higher Ed.

Use NCTM Standards
6. Professional Development & Innovation

How can we prepare teachers with innovative curriculum, e.g. Investigations?

How do we teach innovative curricula, e.g. Investigations?

How can we best integrate inquiry-based classrooms into regular practice?

Need Technology in the Classroom

Aim: Improve access for teachers and students